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North Carolina

# INSECTICIDE REPORT

for

January 1 - December 31, 1962



## THE BULLETIN

of the

North Carolina Department of Agriculture

Raleigh, N. C.

L. Y. BALLENTINE, *Commissioner*

JOHN L. REITZEL, *Assistant Commissioner*

E. W. CONSTABLE, *State Chemist*

Number 172

June, 1963

## INSECTICIDE REPORT

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### ABOUT OUR COVER PICTURE

The cover picture places emphasis on "label reading". Two main points are stressed. Care should be taken not only in reading the instructions for use, but the precautionary warnings should be thoroughly understood and heeded. Warnings concerning the health of the user, as well as those limiting the application dates before harvest of some of the pesticides, should be read carefully and followed closely. Failure to do so could be disastrous to the farmer and his market, and adversely affect the consumer.

Labels on pesticides are expensive pieces of literature. In many cases it takes five to six years and cost one to three million dollars to develop the product. Instructions that set out its uses and safeguards are part of that development. Legal safeguards that test and specify those instructions take additional time and money.

Estimates of the destruction caused by agricultural pests alone in the United States range between 8 and 15 billion dollars annually, despite the widespread use of the best control practices now available. Without economic poisoning agents these pests would definitely threaten our existence. Pesticides are of incalculable value as tools in modern pest control, but the safety and usefulness of these economic poisoning agents depend solely on strict adherence to the instructions contained on their labels.

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## Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliant, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliant are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons laws (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S. Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information, there is given in this issue of The Bulletin a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department for the calendar year 1962. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1962.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 7 and 8. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to manufacturers, dealers and users. As a further means of reporting, an issue of The Bulletin covering a year's work as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Henry W. Barnes, Jr., William Buffaloe, Harold Jackson, Thomas Vick, Chemists; Mrs. Frances Liles, Secretary; S. E. Berkshire, George A. Brown, Jr., T. E. Carriker, Jr., J. W. Davis, H. C. McPhail, James R. Stevens, Inspectors; William Morgan, Donald Smith, Laboratory Helpers.

# Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.

Administrative  
Officer

1. The name and address of the guarantor.
2. The brand name or trademark.
3. The net weight or measure.
4. A guaranteed analysis statement showing:
  - a. The name and percentage of each active ingredient.
  - b. The total percentage of inert ingredients.
5. Instructions for use, adequate for the protection of public.
6. A warning or caution statement adequate to prevent injury.
7. For economic poisons highly toxic to man:
  - a. The skull and crossbones.
  - b. The word "Poison" in red, on distinctly contrasting background.
  - c. An antidote for the poison.
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

Information  
Required to  
Appear on  
Package  
Labels

## Other General Requirements:

1. Strength and quality must not fall below that professed or claimed.
2. No false or misleading statement, design or other representation is permissible.
3. Imitations are not permitted.
4. Labeling may not refer to registration.
5. Labeling shall be legible and understandable.
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

General  
Requirements

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

**Registration**

Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.

Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.

**Inspection Tax**

An annual inspection tax of \$10.00 for each brand and each grade is required.

**Method of Paying**

Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.

**Refusal or Cancellation of Registration**

Registration is subject to refusal or cancellation for cause and upon hearing.

**Stop-Sale Orders**

Goods not measuring up to requirements are subject to Stop-Sale Orders.

**Short Weight**

Short weight, in addition to above, is subject to penalty.

**Exempt From Penalties of Law Are:**

**Exemptions**

1. Carriers engaged in legal transporting.
2. Public official while performing official duties.
3. Manufacturers and shippers of products properly identified for experimental use only.
4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.

**NOTE:** Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

## Economic Poisons Registrants, 1962

### ABERDEEN EXTERMINATORS

P. O. Box 493  
Aberdeen, North Carolina

### ACELINE PRODUCTS CORP.

P. O. Box 236  
Rochester 1, New York

### ACME FERTILIZER CO.

P. O. Box 98  
Acme, North Carolina

### ACME QUALITY PAINTS, INC.

8250 St. Aubin Avenue  
Detroit 11, Michigan

### AERO-MASTER, INC.

325 W. Pacific Avenue  
St. Louis 19, Missouri

### AGRICULTURAL SPECIALTIES

Star-Bar Div.  
12200 Denton Drive  
Dallas 34, Texas

### AIRKEM, INC.

241 East 44th Street  
New York 17, New York

### AIROSOL COMPANY, INC.

525 N. 11th Street  
Neodesha, Kansas

### ALCATRAZ COMPANY, INC., THE

1900 Ellen Road  
Richmond 30, Virginia

### ALCO CHEMICAL CO.

19220 Pioneer Blvd.  
Artesia, California

### ALFORD HOME PRODUCTS

P. O. Box 239  
Middlesex, North Carolina

### ALLEN-CROWL CO.

1559 Allentown Rd.  
Lima, Ohio

### ALLIED CHEMICAL CORP.

General Chemical Div.  
40 Rector Street  
New York 6, New York

### ALLIED CHEMICAL AND DYE CORP.

Plastics & Coal Chem. Div.  
40 Rector Street  
New York 6, New York

### ALLIED DRUG PRODUCTS CO.

P. O. Box 871  
Chattanooga 1, Tennessee

### ALLIED PRODUCERS AND SUPPLY CO.

P. O. Box 3421  
Charlotte 3, North Carolina

### ALL STAR MILLS, INC.

P. O. Box 271  
Albemarle, North Carolina

### AMCHEM PRODUCTS, INC.

Ambler  
Pennsylvania

### AMERICAN CYANAMID CO.

P. O. Box 400  
Princeton, New Jersey

### AMERICAN MINERAL SPIRITS CO.

Mountain Avenue  
Murray Hill, New Jersey

### AMERICAN PAPER AND PLASTIC PRODUCTS, INC.

4425 N. Port Washington Road  
Milwaukee 12, Wisconsin

### AMERICAN OIL CO.

910 S. Michigan Avenue  
Chicago 80, Illinois

### AMERICAN SCIENTIFIC LABORATORIES, INC.

P. O. Box 1288  
Madison 1, Wisconsin

### AMERICAN STERILIZER CO.

2424 W. 23rd Street  
Erie, Pennsylvania

### A-M-R CHEMICAL COMPANY, INC.

985 East 35th Street  
Brooklyn 10, New York

### AMWAY SALES CORP.

7575 E. Fulton Road  
Ada, Michigan

### ANDROC CHEMICAL CO.

7301 W. Lake Street  
Minneapolis 26, Minn.

### ANIMAL REPELLENTS, INC.

980 Ellicott Street  
Buffalo 9, New York

### A-PENN OIL CO.

P. O. Box 191  
Butler, Pennsylvania

### APEX CHEMICAL CO.

617 Salem Street  
Apex, North Carolina

### ARMOUR AGRICULTURAL CHEMICAL CO.

P. O. Box 900  
Greensboro, North Carolina

### ARMOUR AND CO.

Soap Division  
1355 West 31st Street  
Chicago 9, Illinois

### ARNOTT CHEMICAL AND EXTERMINATING CO.

249 Mass. Avenue  
Indianapolis 4, Indiana

### ASPEN ASSOCIATES, INC.

1003 Battleground Avenue  
Greensboro, North Carolina

### ATLA CHEMICAL COMPANY, INC.

415 S. Spring Street  
Greensboro, North Carolina

### ATLANTIC AND PACIFIC TEA CO., THE GREAT

2024 Thrift Road  
Charlotte, North Carolina

### ATLAS AGRICULTURAL CHEMICALS, INC.

P. O. Box 169  
Waynesboro, Georgia

### AVRIL, INC.

Third & Greenwich Sts.  
Reading, Pennsylvania

### BABBITT, B. T., INC.

20 Broadway  
Albany 1, New York

BARCO MANUFACTURING COMPANY, INC.  
340 Main Street  
Worcester 8, Mass.

BARKER, MOORE AND MEIN COMPANY,  
INC.  
P. O. Box 12  
Lebanon, Pennsylvania

BAUER AND BLACK  
Division of The Kendall Company  
309 W. Jackson Blvd.  
Chicago 6, Illinois

BEN VENUE LABORATORIES, INC.  
270 Northfield Road  
Bedford, Ohio

BERLOU MANUFACTURING CO.  
421 Monroe Street  
Marion, Ohio

BEST EXTERMINATING SERVICE, INC.  
317 W. Pettigrew St.  
Durham, North Carolina

BIO-LAB, INC.  
P. O. Box 89  
Decatur, Georgia

BISSELL, INC.  
919 - 18th St., N.W.  
Washington 6, D. C.

BLACK LEAF PRODUCTS CO.  
6147 N. Broadway  
Chicago 40, Illinois

BLACK MAGIC CO.  
509 Green St., Box 466  
Valdosta, Georgia

BLACK PANTHER COMPANY, INC.  
P. O. Box 690  
Sanford, North Carolina

BLUE MAGIC CO.  
509 S. Lodge Street  
Wilson, North Carolina

BOHLENDER PLANT CHEMICALS, INC.  
Tipp City  
Ohio

BON AMI COMPANY, INC., THE  
445 Park Avenue  
New York 22, New York

BONIDE CHEMICAL CO.  
382 N. Genesee Street  
Utica 4, New York

BORDERLAND PRODUCTS, INC.  
560 Fulton Street  
Buffalo, New York

BOYER CHEMICAL CO.  
1611 Church Street  
Evanston, Illinois

BOYLE-MIDWAY, INC.  
685 Third Avenue  
New York 17, New York

BUCKEYE CHEMICAL AND SPECIALTY  
49 East 21 Street  
New York 10, New York

BURPEE, W. ATLEE CO.  
18th St. & Hunting Park Avenue  
Philadelphia 32, Pa.

BURRIS CHEMICAL CO.  
Stark Industrial Park  
Charleston, South Carolina

CALIFORNIA CHEMICAL CO.  
Ortho Division  
Richmond 4, California

CALUMET AND HECLA, INC.  
Calumet Division  
1 Calumet Avenue  
Calumet, Michigan

CAPE FEAR CHEMICALS, INC.  
P. O. Box 567  
Elizabethtown, North Carolina

CAPITOL CHEMICAL CO.  
3255 Prospect Avenue, N. W.  
Washington 7, D. C.

CARAJON CHEMICAL COMPANY, INC.  
P. O. Box 167  
Fremont, Michigan

CARBOLA CHEMICAL COMPANY, INC.  
Natural Bridge  
New York

CARBOLINEUM WOOD PRESERVING CO.  
6683-N. 40th St.  
Milwaukee, Wisconsin

CARDINAL PRODUCTS, INC.  
P. O. Box 1611  
Durham, North Carolina

CAROLINA CHEMICAL CORP.  
P. O. Box 70  
Wilson, North Carolina

CAROLINA CHEMICALS, INC.  
P. O. Box 128  
Columbia Airport  
West Columbia, South Carolina

CAROLINA FEED STORE  
279 E. Main Avenue  
Gastonia, North Carolina

CAROLINA PACKING HOUSE SUPPLIES,  
INC.  
Green Sea Road  
Tabor City, North Carolina

CARROLL CHEMICAL CO., THE  
2301 Hollins Street  
Baltimore 23, Maryland

CARTER'S DRUGS AND SEEDS  
31 Barnard Street  
Savannah, Georgia

CARTER INSECTICIDE AND CHEMICAL  
COMPANY, INC.  
P. O. Box 209  
Wallace, North Carolina

C-B DRUG CO.  
2219 Freedom Drive  
Charlotte 8, North Carolina

CENTER CHEMICAL CO.  
P. O. Box 1888  
Atlanta, Georgia

CENTRAL CHEMICAL CORP.  
P. O. Box 310  
Hagerstown, Maryland

CHAMBERS-GODFREY MANUFACTURING  
CO.  
302-04 Broadway  
Martin, Tennessee

- CHAPMAN CHEMICAL CO.  
416 Brooks Road  
P. O. Box 3158—Mallory Sta.  
Memphis 9, Tennessee
- CHAPMAN, M. A. AND SON  
P. O. Box 691  
Canton, North Carolina
- CHASE PRODUCTS CO.  
19th & Gardner Road  
Broadview, Illinois
- CHEMAGRO CORP.  
P. O. Box 4913  
Kansas City 20, Missouri
- CHEMCO INDUSTRIALS, INC.  
P. O. Box 1772  
Raleigh, North Carolina
- CHEMICAL CORPORATION OF AMERICA  
P. O. Box 3577  
Tallahassee, Florida
- CHEMICAL AND EQUIPMENT SALES AND SERVICE CO.  
P. O. Box 135  
Charlotte 1, North Carolina
- CHEMISTRY HALL LABORATORIES  
P. O. Box 255  
Bradenton, Florida
- CHEMWAY CORP.  
Fairfield Road  
Mountain View  
Wayne, New Jersey
- CHESTER CHEMICAL CORP.  
2732 6th Avenue, S.  
St. Petersburg, Florida
- CHIPMAN CHEMICAL COMPANY, INC.  
Bound Brook  
New Jersey
- CLARK & PROCTOR TURPENTINE COMPANY, INC.  
331-349 Worth Street  
Fayetteville, North Carolina
- CLEAN HOME PRODUCTS, INC.  
2805 Locust Street  
St. Louis 3, Missouri
- CLEARY CORP., W. A.  
P. O. Box 749  
New Brunswick, New Jersey
- CLICK CHEMICAL CORP.  
601 S. Columbus Avenue  
Mount Vernon, New York
- CLINTON NURSERIES  
Boston Post Road  
Clinton, Conn.
- COAHOMA CHEMICAL COMPANY, INC.  
P. O. Box 728  
Clarksdale, Mississippi
- COASTAL CHEMICAL CORP.  
2113 Dickinson Avenue  
Greenville, North Carolina
- COLGATE-PALMOLIVE CO.  
300 Park Avenue  
New York 22, New York
- COLONIAL PRODUCTS, INC.  
6207 Georgia Avenue  
West Palm Beach, Florida
- COLONIAL STORES, INC.  
215 Lawyers Bldg.  
Greenville, South Carolina
- COMET MANUFACTURING CORP.  
688 Spring Street N. W.  
Atlanta 8, Georgia
- COMMON SENSE MANUFACTURING COMPANY, INC.  
1392 Niagara Street  
Buffalo 13, New York
- CONSANS CHEMICAL PRODUCTS  
Michigan Tool Company  
7125 E. McNichols Rd.  
Detroit 12, Michigan
- CONSOLIDATED PAINT AND VARNISH CORP.  
The East Ohio Building  
Cleveland 14, Ohio
- COOK CHEMICAL CO.  
2500 Summit Street  
Kansas City, Missouri
- COOPER, WILLIAM AND NEPHEWS, INC.  
1909 N. Clifton Avenue  
Chicago 14, Illinois
- COUGHLAN, G. N. CO.  
29 Spring Street  
West Orange, New Jersey
- COWLEY, S. L. & SONS MANUFACTURING CO.  
708 W. McAlester Street  
Hugo, Oklahoma
- CRE-O-TOX CHEMICAL PRODUCTS CO.  
2670 Broad Avenue  
Memphis, Tennessee
- CUTTER LABORATORIES, INC.  
Fourth & Parker Sts.  
Berkeley 10, California
- DALY-HERRING CO.  
Adkin & University Sts.  
Kinston, North Carolina
- DARWORTH INC.  
Cuprinol Division  
P. O. Box 308  
Simsbury, Conn.
- DAUBERT CHEMICAL CO.  
4700 S. Central Avenue  
Chicago 38, Illinois
- DAVIES-YOUNG SOAP CO., THE  
705 Albany Street  
Dayton 1, Ohio
- D-CON COMPANY, INC., THE  
1450 Broadway  
New York 18, New York
- DESOTO CHEMICAL COMPANY, INC.  
P. O. Box 70  
Arcadia, Florida
- DETTELBACK PESTICIDES CORP.  
4103 Peachtree Rd., N.E.  
Atlanta 19, Georgia
- DIAMOND ALKALI CO.  
300 Union Commerce Bldg.  
Cleveland 14, Ohio
- DILL CO., THE  
Washington St. & McKinley Avenue  
Norristown, Pa.

- DIXI CHEMICAL CO.  
520 W. 31st St.  
Chattanooga, Tennessee
- DOUGLAS CHEMICAL CO.  
620 East 16th Avenue  
North Kansas City, Missouri
- DOUGLAS CHEMICAL COMPANY, INC., THE  
P. O. Box 6541  
Richmond, Virginia
- DOW CHEMICAL CO., THE  
Midland  
Michigan
- DRACKETT PRODUCTS CO., THE  
5020 Spring Grove Avenue  
Cincinnati 32, Ohio
- DUMAS MILNER CORP.  
P. O. Box 10027 Northside Sta.  
Jackson, Miss.
- DUN WIN CO.  
136 Elm Street  
S. Williamsport, Penn.
- DU PONT DE NEMOURS AND COMPANY,  
E. I., INC.  
6054 Du Pont Bldg.  
Wilmington 98, Delaware
- EAGLE CHEMICAL CO.  
P. O. Box 8127  
Chattanooga, Tenn.
- ECONOMICS LABORATORY, INC.  
914 Guardian Bldg.  
Saint Paul 1, Minn.
- EDWARDS-COUNCILOR COMPANY, INC.  
121 Colley Avenue  
Norfolk 10, Virginia
- ELANCO PRODUCTS CO.  
740 S. Alabama Street  
Indianapolis 6, Indiana
- ELECTROLUX CORP.  
235 East 42nd Street  
New York 17, New York
- ELI LILLY AND CO.  
Elanco Products Co., Div.  
740 S. Alabama Street  
Indianapolis 6, Indiana
- EMPIRE LABORATORIES  
700 Marietta St., N.W.  
Atlanta 18, Georgia
- FAIRFAX BIOLOGICAL LABORATORY  
Electronic Road  
Clinton Corners, New York
- FAIRFIELD CHEMICAL DIV.  
Food Machinery & Chemical Corp.  
100 Niagara Street  
Middleport, New York
- FAR-BEST CORP.  
6715 McKinley Avenue  
Los Angeles 1, California
- FARMERS COOPERATIVE EXCHANGE  
INC.  
P. O. Box 1069  
Statesville, North Carolina
- FARNAM COMPANIES, INC.  
P. O. Box 2151  
Phoenix, Ariz.
- FERGUSON, ALEX C. CO.  
44 East Oregon Avenue  
Philadelphia 48, Pa.
- FLORIDA AGRICULTURAL SUPPLY CO.  
1611 Tallevrand Avenue  
Jacksonville, Florida
- FLY-CORD, INC.  
P. O. Box 2006  
Savannah, Georgia
- FORSYTH CHEMICALS, INC.  
P. O. Box 6165  
Charlotte 7, North Carolina
- FRANKLIN RESEARCH CO.  
5134 Lancaster Avenue  
Philadelphia 31, Pa.
- FRENCH CO., THE R. T.  
1 Mustard Street  
Rochester 9, New York
- FRONTIER CHEMICAL CO.  
Division of Vulcan Materials Co.  
P. O. Box 545  
Wichita, Kansas
- GARDEN HOSE SPRAY COMPANY, INC.  
7 Upland Road  
Cambridge 40, Mass.
- GASTON JOHNSTON CORP.  
24-64 45th Street  
Long Island City 3, New York
- GEIGY AGRICULTURAL CHEMICALS  
P. O. Box 430  
Yonkers, New York
- GEORGIA-CAROLINA OIL CO.  
P. O. Box 101  
Macon, Georgia
- GEORGIA GULF SULFUR CORP.  
Spring Creek Road  
Bainbridge, Georgia
- GETEM MANUFACTURING COMPANY, INC.  
1261 West 42nd Street  
Norfolk 8, Virginia
- GIBSON-HOMANS COMPANY  
Hutson Division  
Railroad & Institute St.  
Conyers, Georgia
- GLAMORENE, INC.  
175 Entin Road  
Clifton, New Jersey
- GLAMUR PRODUCTS, INC.  
1024 Montgomery Street  
Syracuse 3, New York
- GLIDDEN CO., THE  
900 Union Commerce Bldg.  
Cleveland 14, Ohio
- GLOBE LABORATORIES  
Division of Charles Pfizer and Company,  
Inc.  
116 Commerce Street  
Fort Worth 2, Texas
- GLOVER COMPANY, INC., H. CLAY  
1001 Franklin Avenue  
Garden City, New York
- GLOVER MINERAL PRODUCTS, INC.  
Kenbridge  
Virginia

- GRACE AND CO., W. R.  
Davison Chemical Div.  
P. O. Box 858  
Charleston, South Carolina
- GRAHAM CHEMICAL COMPANY, INC.  
1407 Battleground Avenue  
Greensboro, North Carolina
- GREAT LAKES CHEMICAL CORP.  
Div. of Great Lakes Oil & Chem. Co.  
753 Warner Bldg.  
Washington 4, D. C.
- GREEVER'S  
Chilhowie  
Virginia
- GRISSMER CO., EARL  
712 E. 64th St.  
Indianapolis, Indiana
- GUARDIAN CHEMICAL CO.  
P. O. Box 1354  
Atlanta 1, Georgia
- GULF OIL CORP.  
P. O. Box 1519  
Houston 1, Texas
- GURMICO CHEMICALS, INC.  
P. O. Box 146  
Princeton, North Carolina
- GUSTAFSON MANUFACTURING COMPANY,  
INC.  
6501 Cambridge St.  
Minneapolis 26, Minnesota
- H AND M CHEMICAL COMPANY, INC.  
43 Green Street  
Sumter, South Carolina
- HAPPY JACK, INC.  
P. O. Box 325  
Snow Hill, North Carolina
- HARRIS PRODUCTS COMPANY, INC.  
P. O. Box 4  
Miami Beach 39, Florida
- HARRIS AND COMPANY, INC., J. M.  
P. O. Box 411  
Roanoke, Virginia
- HARRIS MANUFACTURING COMPANY, P. F.  
101 W. 8th Street  
North Little Rock, Arkansas
- HARTZ MOUNTAIN PRODUCTS CORP.  
50 Cooper Square  
New York 3, New York
- HELLER LABORATORIES, INC.  
A Div. of B. Heller & Co.  
Calumet Avenue & 40th St.  
Chicago 53, Illinois
- HERCULES POWDER CO.  
910 Market Street  
Wilmington 99, Delaware
- HERTRON CHEMICAL CO.  
306 Clanton Road  
Charlotte 3, North Carolina
- HERCULES POWDER CO.  
Reasor-Hill Products  
Synthetics Department  
Jacksonville, Arkansas
- HESS AND CLARK, INC.  
Div. of Richardson-Merrell, Inc.  
7th & Orange Sts.  
Ashland, Ohio
- HILL MANUFACTURING CO.  
1500 Jonesboro Road, S.E.  
Atlanta 15, Georgia
- HILLYARD SALES CO.  
302 N. 4th St.  
St. Joseph 1, Missouri
- HINTON AND COMPANY, INC.  
67 Murray Street  
New York 7, New York
- HOLCOMB MANUFACTURING CO., J. I.  
1601 Barth Avenue  
Indianapolis 7, Indiana
- HOLLINGSHEAD CORP., R. M.  
840 Cooper Street  
Camden 2, New Jersey
- HOLLYWOOD TERMITE CONTROL CO.  
938 N. Eastern Avenue  
Los Angeles 63, California
- HOOD CHEMICAL COMPANY, INC.  
Div. of Tetzke Chems., Inc.  
215 Lawyers Bldg.  
Greenville, South Carolina
- HOOVER CHEMICAL CORP.  
666 Fifth Avenue  
New York 19, New York
- HOT SHOT QUALITY PRODUCTS, INC.  
701 N. Main Street  
Memphis, Tenn.
- HOUSTON CO., SAM  
P. O. Box 662  
Talladega, Alabama.
- HOWERTON GOWEN COMPANY, INC.  
E. 11th Street  
Roanoke Rapids, North Carolina
- HUGE COMPANY, INC., THE  
884 Hodiarnont Avenue  
St. Louis 12, Missouri
- HUMBLE OIL AND REFINING CO.  
15 West 51st Street  
New York 19, New York
- HUNTINGTON LABORATORIES, INC.  
970 E. Tipton Street  
Huntington, Indiana
- HUTSON AND SONS, H. G.  
P. O. Box 2190  
Atlanta 1, Georgia
- HUTTIG SASH AND DOOR CO.  
1206 S. Vandeventer Avenue  
St. Louis 10, Missouri
- HYDROPONIC CHEMICAL COMPANY, INC.  
P. O. Box 97-C  
Copley, Ohio
- HYSAN PRODUCTS CO.  
919 West 38th Street  
Chicago 9, Illinois
- INDEPENDENT EXTERMINATING CO. OF  
N.C.  
210 S. Rutherford Street  
Wadesboro, North Carolina

- INDUSTRIAL FUMIGANT CO.**  
923 State Line  
Kansas City 1, Missouri
- INSECT CONTROL SALES AND SERVICE**  
P. O. Box 152  
Candor, North Carolina
- IRWIN-WILLERT CO.**  
4044 Park Avenue  
St. Louis 10, Missouri
- JOHNSON AND SON, INC., S. C.**  
1525 Howe Street  
Racine, Wisconsin
- JORO, INC.**  
P. O. Box 411  
Roanoke, Virginia
- KAY CHEMICAL CO.**  
131 W. High Street  
High Point, North Carolina
- KEEL PEANUT CO.**  
P. O. Box 878  
Greenville, North Carolina
- KERR CHEMICALS, INC.**  
1001 Northwest Highway  
Des Plaines, Illinois
- KING CHEMICAL CO.**  
2342 South Lauderdale St.  
Memphis 6, Tenn.
- KING RESEARCH, INC.**  
114 - 12th Street  
Brooklyn 15, New York
- KLENZADE PRODUCTS**  
Division of Economics Laboratories, Inc.  
P. O. Box 1020  
Beloit, Wisconsin
- KOLKER CHEMICAL CORP.**  
600 Doremus Avenue  
Newark 5, New Jersey
- KOPPERS COMPANY, INC.**  
Tar Products Division  
430 Park Avenue  
New York 22, New York
- K-R-O CO.**  
19½ N. Limestone Street  
Springfield, Ohio
- LABCO PET PRODUCTS CO.**  
281 Franklin Street  
Boston 10, Mass.
- LAKE CHEMICAL CO.**  
P. O. Box 231  
Calumet, Michigan
- LATHAN CHEMICAL PRODUCTS**  
503 Neuse Street  
Oriental, North Carolina
- LEGEAR, INC., DR.**  
4161 Beck Avenue  
St. Louis 16, Missouri
- LESTER LABORATORIES, INC.**  
P. O. Box 4897  
Atlanta 2, Georgia
- LETHELIN PRODUCTS COMPANY, INC.**  
15 MacQuesten Parkway, South  
Mount Vernon, New York
- LEYDEN LABORATORIES**  
One Bala Avenue  
Bala-Cynwyd, Pa.
- LINCK COMPANY, INC., O. E.**  
Route 46 and Valley Road  
Clifton, New Jersey
- LINEN WHITE PRODUCTS COMPANY, INC.**  
P. O. Box 248  
Clinton, North Carolina
- MCCLELLAN VETERINARY LABORATORIES**  
P. O. Box 32215  
Los Angeles 32, California
- MCCORMICK AND COMPANY, INC.**  
McCormick Building  
Baltimore 2, Maryland
- MCKESSON LABORATORIES**  
P. O. Box 548  
Bridgeport, Connecticut
- MCLAUGHLIN GORMLEY KING CO.**  
1715 Fifth St., S.E.  
Minneapolis 14, Minn.
- MABEX CO., THE**  
Umbria & Lemonte Streets  
Philadelphia 27, Pa.
- MAHAFFEY CO.**  
P. O. Box 8145  
Greenville, South Carolina
- MAINTENANCE SUPPLY SERVICE CORP.**  
P. O. Box 498  
Huntersville, North Carolina
- MALLINCKRODT CHEMICAL WORKS**  
P. O. Box 635  
New York 8, New York
- MARK LABORATORIES, INC.**  
7007 Kelly Street  
Pittsburgh 8, Pa.
- MARTIN, C. J. AND SONS**  
1181 Airport Blvd.  
Austin 2, Texas
- MASTER PRODUCTS CO.**  
P. O. Box 531  
Fayetteville, North Carolina
- MASURY-YOUNG CO.**  
76 Roland Street  
Boston 29, Mass.
- MAXWELL INSECTICIDE COMPANY, INC.**  
P. O. Box 5627  
Raleigh, North Carolina
- MEHERRIN AGRICULTURAL AND CHEMICAL CO.**  
Severn  
North Carolina
- MERCK AND COMPANY, INC.**  
Rahway  
New Jersey
- MICHIGAN CHEMICAL CORP.**  
500 N. Bankson Street  
St. Louis, Michigan
- MIDLAND LABORATORIES**  
210-220 Jones Street  
Dubuque, Iowa
- MIKE, INC.**  
P. O. Box 92  
Newland, North Carolina

- MILLER CO., B. E.  
P. O. Box 127  
Hancock, Maryland
- MILLER CHEMICAL AND FERTILIZER CORP.  
3006 W. Cold Spring Lane  
Baltimore 15, Maryland
- MILLS-PEARSON CORP.  
Dianol Division  
2621 24th St. N.  
St. Petersburg 33, Florida
- MOLONY FERTILIZER CO.  
P. O. Box 314  
Charleston, South Carolina
- MOMAR, INC.  
1830 Ellsworth Industrial Dr., N.W.  
Atlanta, Georgia
- MONA INDUSTRIES, INC.  
P. O. Box 1786  
Paterson 17, New Jersey
- MONSANTO CHEMICAL CO.  
800 North Lindbergh Street  
St. Louis 66, Missouri
- MORTON CHEMICAL CO.  
Agriculture Div., Research Dept.  
110 N. Wacker Dr.  
Chicago 6, Illinois
- MOTOMCO, INC.  
89 Terminal Avenue  
Clark, New Jersey
- MUTUAL PRODUCTS CO.  
509 North Fourth St.  
Minneapolis, Minn.
- NALCO CHEMICAL CO.  
6216 W. 66th Pl.  
Chicago 38, Ill.
- NATCON CHEMICAL COMPANY, INC.  
Lexington & Revere Avenues  
Bethpage, Long Island, New York
- NATIONAL CHEMSEARCH CORP.  
P. O. Box 10087  
Dallas 7, Texas
- NATIONAL HOG MEDICINE CO.  
804 N. West Street  
P. O. Box 1634  
Raleigh, North Carolina
- NATIONAL LABORATORIES  
4934 Lewis Avenue  
Toledo 12, Ohio
- NATIONWIDE CHEMICAL COMPANY, INC.  
2209 Fowler Street  
Fort Myers, Florida
- NIAGARA CHEMICAL DIV.  
Food Machinery and Chem. Corp.  
P. O. Box 1709  
Jacksonville 1, Florida
- NIP-CO MANUFACTURING, INC.  
200 Main Street  
New Rochelle, New York
- NORDA ESSENTIAL OIL AND CHEMICAL COMPANY, INC.  
601 West 26th Street  
New York 1, New York
- NOTT MANUFACTURING COMPANY, INC.  
200 S. Water St.  
Poughkeepsie, New York
- NOWLAND CO., THE GEORGE H.  
538 E. 5th St.  
Cincinnati 2, Ohio
- NUODEX PRODUCTS COMPANY, INC.  
110 E. 42nd St.  
New York 17, New York
- NUTRILITE PRODUCTS, INC.  
5600 Beach Boulevard  
Buena Park, California
- ODOR-AIRE, INC.  
1019 E. 2nd  
Wichita, Kansas
- OLIN MATHIESON CHEMICAL CORP.  
Mathieson Bldg.  
10 Light Street  
Baltimore 3, Maryland
- ONE-SPOT COMPANY  
Box 217  
Jessup, Maryland
- OPITZ, INC., JOHN  
50-14-39th Street  
Long Island City 4, New York
- PAPER PRODUCTS, INC.  
P. O. Box 5158  
Long Beach 5, California
- PARKE, DAVIS AND CO.  
Foot of Joseph Campau  
Detroit 32, Michigan
- PARRAMORE AND GRIFFIN SEED COMPANY, INC.  
108 S. Toombs Street  
Valdosta, Georgia
- PAXTON ENTERPRISES  
Drawer A  
Palacios, Texas
- PEARSON AND CO.  
151 N. Commerce Street  
Mobile, Alabama
- PEELE COMPANY, INC., W. R.  
516 S. Salisbury Street  
Raleigh, North Carolina
- PENICK AND CO., S. B.  
100 Church Street  
New York 8, New York
- PENNSALT CHEMICALS CORP.  
Three Penn Center Plaza  
Philadelphia 2, Pa.
- PENNSALT CHEMICALS CORP.  
2901 Taylor Way  
Tacoma 2, Washington
- PENNSYLVANIA ENGINEERING CO.  
1107-21 N. Howard Street  
Philadelphia 23, Pa.
- PENNSYLVANIA REFINING CO.  
Commonwealth Bank & Trust Co. Bldg.  
Butler, Pennsylvania
- PEST-GUARD PRODUCTS, INC.  
731 W. Davis Street  
Dallas 8, Texas

- PET CHEMICALS, INC.  
1038 N.W. 21st Ter.  
Miami, Florida
- PFEIFFER CO., THE  
3965 Laclede Avenue  
St. Louis 8, Missouri
- Pfizer and Company, Inc., CHARLES  
11 Bartlett Street  
Brooklyn 6, New York
- PHELPS DODGE REFINING CORPORATION  
300 Park Avenue  
New York 22, New York
- PIC CORP.  
480 Washington St.  
Newark 2, New Jersey
- PIONEER MANUFACTURING CO., THE  
3053 E. 87th Street  
Cleveland 4, Ohio
- PITTSBURGH PLATE GLASS CO.  
New Albany Road  
Moorestown, New Jersey
- PLANTABBS CORP.  
1105 Maryland Avenue  
Baltimore 1, Maryland
- PLANTERS CHEMICAL CORP.  
Virginia Beach Blvd.  
Norfolk 16, Virginia
- PLOUGH, INC.  
3022 Jackson Avenue  
Memphis, Tennessee
- POLK MILLER PRODUCTS CORP.  
2007 North Hamilton Street  
Richmond 30, Virginia
- POPLIN CHEMICAL CO.  
Route 1, Box 300  
Statesville, North Carolina
- PRATT CO., B. G.  
204 21st Avenue  
Paterson, New Jersey
- PRATER WHOLESALE CO., E. H.  
Route #3  
Seneca, South Carolina
- PROCTER AND GAMBLE CO., THE  
P. O. Box 599  
Cincinnati 1, Ohio
- PROTECTION PRODUCTS MANUFACTURING CO.  
2305 Superior Avenue  
Kalamazoo, Michigan
- PUREX CORPORATION, LTD.  
9300 Rayo Avenue  
South Gate, California
- PYRROLE CHEMICAL CORP.  
817 Spring Lane  
Portsmouth, Ohio
- RALSTON PURINA CO.  
835 South Eighth Street  
St. Louis, Missouri
- RAPID CHEMICAL CO.  
113-East-J St.  
Forest City, Iowa
- RAT LUNCHES CO.  
10 S. Winona Ct.  
Denver 19, Colorado
- RAWLEIGH CO., THE W. T.  
223-225 E. Main St.  
Freeport, Ill.
- REARDON LABORATORIES, INC., W. G.  
330 North Main Street  
Port Chester, New York
- REEFER-GALLER, INC.  
521 Fifth Avenue  
New York 17, New York
- REICHOLD CHEMICALS, INC.  
Tuscaloosa, Ala.
- REXAIR, INC.  
c/o The Ottawa Chemical Company  
700 N. Wheeling St.  
Toledo 5, Ohio
- REXALL DRUG CO.  
8480 Beverly Boulevard  
Los Angeles 54, California
- REX RESEARCH CORP.  
600 Montrose Ave.  
Toledo 7, Ohio
- RIGO MANUFACTURING COMPANY, INC.  
Box 1188, 638 Benton Avenue  
Nashville, Tennessee
- RINGER CORP., JUDD  
3355 Republic Avenue  
Minneapolis 26, Minn.
- RODENT CONTROL FUND, N. C. STATE COLLEGE  
P. O. Box 5577, State College Station  
Raleigh, North Carolina
- ROHM AND HAAS CO.  
222 W. Washington Square  
Philadelphia 5, Pa.
- ROLFES CO., GEORGE A.  
Paratrol Division  
P. O. Box 548  
Boone, Iowa
- ROYAL CHEMICAL COMPANY, INC.  
P. O. Box 922  
Albemarle, North Carolina
- RUST-OLEUM CORP.  
2425 Oakton Street  
Evanston, Illinois
- SABINE CHEMICAL CO.  
P. O. Box 1206  
Port Arthur, Texas
- SALSBUURY LABORATORIES, DR.  
500 Gilbert Street  
Charles City, Iowa
- SANFAX CORP.  
P. O. Box 604  
Atlanta, Ga.
- SAUER, THE C. F. CO.  
2000 West Broad Street  
Richmond 20, Virginia
- SCOTT AND SONS CO., O. M.  
Marysville  
Ohio
- SEACOAST LABORATORIES, INC.  
156 Perry Street  
New York 14, New York

- SEARS, ROEBUCK & CO.  
925 S. Homan Avenue  
Chicago 7, Illinois
- SELIG CO., THE  
342 Marietta St., N.W.  
Atlanta 13, Georgia
- SENORET CHEMICAL CO.  
610 Gratiot Street  
St. Louis 2, Missouri
- SEXTON AND CO., JOHN  
P. O. Box 8281  
Philadelphia 5, Pa.
- SHELL CHEMICAL CO.  
110 W. 51st St.  
New York 20, New York
- SHELL OIL CO.  
50 W. 50th Street  
New York 20, New York
- SHEPARD CHEMICAL WORKS  
P. O. Box 473  
Wilmington, North Carolina
- SHERMAN LABORATORIES  
Agricultural Division  
5031 Grandy Avenue  
Detroit 11, Michigan
- SHULTON, INC.  
697 Route 46  
Clifton, New Jersey
- SHUPTRINE CO.  
P. O. Box 644  
Savannah, Georgia
- SINGLETARY, JR. AND CO., F. B.  
208 S. Washington Street  
Rocky Mount, N. C.
- SMITH SEED AND FEED CO.  
315 Lynn Street  
Danville, Virginia
- SMITH SPECIALTIES CO., T. W.  
P. O. Box 5146  
Charlotte 6, North Carolina
- S. C. PEACH GROWERS ASSOCIATION  
P. O. Box 928  
Spartanburg, South Carolina
- SOUTHERN AGRICULTURAL INSECTI-  
CIDES, INC.  
P. O. Box 352  
Hendersonville, North Carolina
- SOUTHERN CHEMICAL CO.  
P. O. Box 930  
Hendersonville, North Carolina
- SOUTHERN TESTING AND RESEARCH  
LABS.  
607 Park Avenue  
Wilson, North Carolina
- SPINDLE CITY CHEMICAL CO.  
Box 444-526 E. Charlotte Ave.  
Sumter, South Carolina
- SPIRITTINE CHEMICAL CO.  
P. O. Box 233  
Wilmington, North Carolina
- SPRAYWAY, INC.  
7644 Vincennes Ave., S.  
Chicago 20, Ill.
- STALFORD PRESSURE-PAK, INC.  
2012 Hammonds Ferry Rd.  
Baltimore 27, Maryland
- STANDARD LABORATORIES, INC.  
201 Tabor Road  
Morris Plains, New Jersey
- STANDARD PACKAGING CORP.  
200 E. 42nd St.  
New York 17, New York
- STANDARD SPRAY AND SUPPLY CO.  
P. O. Box 63  
Lakeland, Florida
- STAUFFER CHEMICAL CO.  
P. O. Box 5388  
Tampa 5, Florida
- STEARNS' ELECTRIC PASTE CO.  
8 So. Dearborn Street  
Chicago 3, Ill.
- STEPHENSON CHEMICAL CO.  
P. O. Box 188  
College Park, Georgia
- STERLING COMPANY, INC., THE  
2801-05 Locust St.  
St. Louis 3, Mo.
- STERNO, INC.  
300 Park Avenue  
New York 22, New York
- STERWIN CHEMICALS, INC.  
1450 Broadway  
New York 18, New York
- STRICKLAND AND CO., J.  
1400 Ragan St.  
Memphis 2, Tennessee
- STULL'S CHEMICALS, INC.  
P. O. Box 6386  
San Antonio 9, Texas
- SUN OIL CO.  
1608 Walnut Street  
Philadelphia 3, Pa.
- SUWANNEE DRUG CO.  
128 Central Avenue  
Newberry, Florida
- SWEENEY MANUFACTURER, INC., W. E.  
340 S. Main St.  
Salisbury, Missouri
- SWIFT AND CO.  
Agricultural Chemical Div.  
P. O. Box 7537  
Norfolk 15, Virginia
- TAYLOR CHEMICAL CO.  
P. O. Box 337  
Aberdeen, North Carolina
- TENNESSEE CORP.  
617-29 Grant Building  
Atlanta 1, Georgia
- TERRELL MOTHPROOF INSTITUTE  
2 West Columbia Street  
Springfield, Ohio
- TESCO CHEMICALS, INC.  
P. O. Box 6286  
Atlanta 8, Georgia
- TEXAS REFINERY CORP.  
P. O. Box 711  
Fort Worth, Texas

- TEXIZE CHEMICALS, INC.  
215 Lawyers Bldg.  
Greenville, South Carolina
- THOMPSON-HAYWARD CHEMICAL CO.  
P. O. Box 768  
Kansas City 41, Missouri
- TOXITE LABORATORIES, INC.  
P. O. Box 29241  
Cumberland, Indiana
- TRIANGLE CHEMICAL CO.  
206 Lower Elm Street  
Macon, Georgia
- UNION CARBIDE CONSUMER PRODUCTS CO.  
Division of Union Carbide Corp.  
270 Park Avenue  
New York 17, New York
- UNION CARBIDE CORP.  
270 Park Avenue, 25th Floor  
New York 17, New York
- UNITED CHEMETRICS  
600 South 4th St.  
Richmond, California
- U. S. BORAX AND CHEMICAL CORP.  
630 Shatto Place  
Los Angeles 5, California
- U. S. RUBBER CO.  
Naugatuck Chem. Div.  
Elm Street  
Naugatuck, Connecticut
- VANDERBILT COMPANY, INC., R. T.  
230 Park Avenue  
New York 17, New York
- VAPOR PRODUCTS CO.  
P. O. Box 8294  
Orlando, Florida
- VAPORETTE, INC.  
2416 South Harwood  
Dallas 5, Texas
- VESTAL LABORATORIES, INC.  
Div. of DuBois Chems., Inc.  
4963 Manchester  
St. Louis 10, Mo.
- VIKON CHEMICAL CO.  
P. O. Box 277  
Elon College, North Carolina
- VINELAND CHEMICAL SALES CORP.  
West Wheat Road  
Vineland, New Jersey
- VINELAND LABORATORIES, INC.  
P. O. Box 70  
Vineland, New Jersey
- VINELAND POULTRY LABORATORIES  
P. O. Box 70  
Vineland, New Jersey
- VINSON CHEMICAL PRODUCTS CO.  
4435 N.W. 2nd Avenue  
Miami 37, Florida
- VIRGINIA-CAROLINA CHEMICAL CORP.  
401 E. Main Street  
Richmond, Virginia
- VIRGINIA CHEMICALS AND SMELTING CO.  
West Norfolk, Virginia
- WALGREEN LABORATORIES, INC.  
4300 Peterson Avenue  
Chicago 46, Illinois
- WALTON-MARCH  
1592 Deerfield Rd.  
P. O. Box 248  
Highland Park, Ill.
- WARD'S PRODUCTS, INC.  
P. O. Box 739  
Arcadia, Florida
- WATKINS PRODUCTS, INC.  
150 Liberty Street  
Winona, Minnesota
- WECO PRODUCTS CO.  
20 N. Wacker Drive  
Chicago 6, Illinois
- WEEVIL-CIDE CO., THE  
1323 Union Avenue  
Kansas City 1, Missouri
- WELLS & COMPANY, INC., S. C.  
1-3 Church St.  
LeRoy, New York
- WESTCHESTER VETERINARY PRODUCTS  
Division of Combe Chem., Inc.  
180 Mamaroneck Avenue  
White Plains, New York
- WEST CHEMICAL PRODUCTS  
42-16 West Street  
Long Island City 1, New York
- WESTON PRODUCTS CO.  
330 W. Salisbury Street  
Asheboro, North Carolina
- WHITMIRE RESEARCH LABORATORIES, INC.  
339 S. Vandeventer Avenue  
St. Louis 10, Missouri
- WHITMOYER LABORATORIES, INC.  
19 N. Railroad Street  
Myerstown, Pa.
- WILSON CHEMICAL DIST. CO.  
Lodge & Spruce Streets  
Wilson, North Carolina
- WILSON, INC., ANDREW  
Baltusrol Way  
Springfield, New Jersey
- WINDSOR WAX COMPANY, INC.  
611 Newark Street  
Hoboken, New Jersey
- WINN CHEMICAL COMPANY, INC.  
Route 3, Box 427  
Anniston, Alabama
- WINTER GARDEN ORNAMENTAL NURSERY, INC.  
P. O. Box 428  
Winter Garden, Florida
- WIRTHMORE FEEDS, INC.  
343 Winter Street  
Waltham 54, Mass.
- WOODLETS, INC.  
2048 Niagara Street  
Buffalo 7, New York

**WOOD RIDGE CHEMICAL CORP.**

Park Place East, Box 97  
Wood Ridge, New Jersey

**WOOD TREATING CHEMICALS CO.**

5137 Southwest Avenue  
St. Louis 10, Missouri

**WOOLFOLK CHEMICAL WORKS, LTD.**

East Main Street  
Fort Valley, Georgia

**WORRELL-CONSOLIDATED LABORATORIES, INC.**

1470 S. Vandeventer Avenue  
St. Louis 10, Missouri

**WRIGHT COMPANY, INC., M. A.**

505 Court Street  
Brooklyn 31, New York

**WYANDOTTE CHEMICALS CORP.**

1609 Biddle Avenue  
Wyandotte, Michigan

**WYATT-QUARLES SEED CO.**

327 S. Wilmington St.  
Raleigh, North Carolina

**WYETH LABORATORIES**

Division of American Home Products Corp.  
P. O. Box 8299  
Philadelphia 1, Pennsylvania

**YALE CHEMICAL CO.**

P. O. Box 715  
Nashville, Tennessee

**ZUMMACH, INC., WM. F.**

120 E. Mineral Street  
Milwaukee 4, Wisconsin

## N. C. Aerial Crop Dusting Law and Regulations

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its ninth year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry sponsored the law and cooperate in its enforcement.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualifications for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

### N. C. AERIAL CROP-DUSTING LAW

#### CHAPTER 106, N. C. GENERAL STATUTES.

##### Article 4B, Aircraft Application of Pesticides

§106-65.13. Definitions. For the purposes of this article:

(1) The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.

(2) The term "Board of Agriculture" means the North Carolina Board of Agriculture.

(3) The term "Commissioner" means the Commissioner of Agriculture.

(4) The term "custom application of pesticides" means any application of pesticides by aircraft.

(5) The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

(6) The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

(7) The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.

(8) The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

(9) The term "insecticide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

(10) The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other representative thereof.

(11) The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

(12) The term "weed" means any plant or plant part which grows where not wanted.

#### §106-65.14. Licenses.

a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or

technician of the organization to take the examinations, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

d. The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this article or regulations made thereunder.

e. The Commissioner may require, under such rules and regulations as may be promulgated under this article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, *provided*, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

**§106-65.15. Regulations, materials and methods of application.**—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this article. *Provided, however,* such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

**§106-65.16. Reports.**—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

**§106-65.17. Information.**—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

**§106-65.18. Penalties.**—Any person violating the provisions of this article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

**§106-65.19. Enforcement.**—For the purpose of carrying out the provisions of this article the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this article.

**§106-65.20. Delegation of Duties.**—The functions vested in the Commissioner by this article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

**§106-65.21. Cooperation.**—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this article and of securing uniformity of regulations.

## **RULES, REGULATIONS, DEFINITIONS AND STANDARDS**

### **CHAPTER XII**

#### **Application of Pesticides By Aircraft**

##### **ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT**

**§12-1. Application for license.**—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

**§12-2. Classes of licenses.**—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) **Contractor's License.** A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) **Airplane Applicator's License.** An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

**§12-3. Examination for license.**—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

**§12-4. Modification, revocation or suspension of license.**—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

**§12-5. Display of license.**—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

**§12-6. Liability bond.**—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the

duration of the applicant's license: Provided, however, it is not the intent of this regulation for any liability insurance policy to cover damages resulting from the application of pesticides, but only for damages caused by aircraft.

**§12-7. Report and records.**—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

**§12-8. Responsibility of contractors and applicators.**—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G. S. 106-65.15)

## Licensees Under N. C. Aerial Crop-Dusting Law for 1962

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1962. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expire December 31, 1962, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1963.

### ALAMANCE AVIATION SERVICE, INC.

Box 1331  
Burlington, North Carolina  
Contractor

### MARVIN ANGE

Route 1, Box 112  
Plymouth, North Carolina  
Contractor

### JACK ARMSTRONG

P. O. Box 1231  
New Bern, North Carolina  
Applicator

### ASPLUNDH TREE EXPERT COMPANY

2804 Rothgeb Drive  
Raleigh, North Carolina  
505 York Road  
Jenkintown, Pennsylvania  
Contractor

### W. H. BAGGETT

Baggett Dusting Service  
c/o General Delivery  
Scotland Neck, North Carolina  
603 South 22nd Street  
Ft. Pierce, Florida  
Applicator and Contractor

### MILTON R. BARNES

P. O. Box 334  
Greensboro, North Carolina  
Applicator

### LLOYD H. BARNWELL

Kittrell Livestock  
Corapeake, North Carolina  
c/o M. E. Rogers Warehouse  
Carolina Hdwy  
Suffolk, Virginia  
826 North Daughtry Street  
Douglas, Georgia  
Applicator and Contractor

### DUKE C. BLEDSOE, JR.

Laurel Springs, North Carolina  
Applicator

### MAURICE N. BRADFORD

P. O. Box 1231  
New Bern, North Carolina  
Applicator

### FRAZIER MACK BRAME

c/o Leland S. McMahon  
Route 2  
Reidsville, North Carolina  
Applicator

### ROBERT S. BRYAN

605 S. Pembroke Avenue  
Ahoskie, North Carolina  
Applicator

### PERRY P. BRYANT

P. O. Box 101  
Washington, North Carolina  
Applicator

### JOSEPH HENRY BYNUM, JR.

P. O. Box 301  
Washington, North Carolina  
Applicator

### GEORGE A. CAMPBELL

Route 1  
Pfafftown, North Carolina  
Applicator

### OSCAR B. CASE

Case Dusting Service  
55 Mt. Airy Street  
Hendersonville, North Carolina  
Applicator and Contractor

### H. H. CHRISTOPHER

Christopher Dusting Service, Inc.  
Box 446  
Raeford, North Carolina  
Box 716  
Okeechobee, Florida  
Applicator and Contractor

### CLINTON FLYING SERVICE

P. O. Box 63  
Clinton, North Carolina  
Contractor

### COASTAL AERO

P. O. Box 741  
Washington, North Carolina  
Contractor

### BENJAMIN F. COLLINS

2804 Rothgeb Drive  
Raleigh, North Carolina  
885 Easton Road  
Glenside, Pennsylvania  
Applicator

### WILLIAM T. CONNELL, JR.

c/o Riddle & Poindexter Crop Spraying, Inc.  
Route 2  
Dobson, North Carolina  
Avon Park, Florida  
Applicator

### JOE COUCH

P. O. Box 231  
Washington, North Carolina  
Applicator

### JOSEPH H. COX, JR.

Morehead-Beaufort Airport, North Carolina  
105 North 40th Street  
Ft. Pierce, Florida  
Applicator

**CRAFT SPRAYING INC.**  
120 East Wilson Street  
Farmville, North Carolina  
Contractor

**WILLIAM JOSEPH CREWS**  
Route 2  
King, North Carolina  
Applicator

**J. L. DARR, JR.**  
Archdale, North Carolina  
Applicator

**JAMES L. DeHAVEN**  
Route 1, Box 123  
Ahoskie, North Carolina  
Applicator

**CHARLES G. DICKENS**  
Roanoke, Virginia  
Applicator

**CORYDON MEAD EASTWOOD, JR.**  
202 Westchester Drive  
P. O. Box T  
Lafayette, Louisiana  
Applicator

**WESLEY F. EDWARDS**  
Seaboard, North Carolina  
3327½ Avenue J, N. W.  
Winter Haven, Florida  
Applicator and Contractor

**IRA CRAIG ELROD**  
Helicopter Industries Corporation  
2626 Sharon Road  
Charlotte, North Carolina  
Applicator and Contractor

**GLEN C. ERWIN**  
P. O. Box 231  
Washington, North Carolina  
Graft, Missouri  
Applicator

**LYLOYD A. ESH**  
P. O. Box 63  
Clinton, North Carolina  
Route 1  
Paradise, Pennsylvania  
Applicator

**MACK G. EURE**  
General Delivery  
Seaboard, North Carolina  
1701 Weber Avenue  
Orlando, Florida  
Applicator and Contractor

**GEORGE A. EWELL**  
P. O. Box 101  
Washington, North Carolina  
Applicator

**EDGAR MALONE EWING**  
Kittrell Livestock  
Corapeake, North Carolina  
Tifton, Georgia  
Applicator

**DOVER FOGLEMAN**  
Box 1331  
Burlington, North Carolina  
Applicator

**SIDNEY E. GIBBS**  
2535 Broad Street, N. W.  
Roanoke, Virginia  
Applicator

**GREENVILLE AVIATION, INC.**  
P. O. Box 231  
Washington, North Carolina  
Contractor

**WALTER RAY GRIFFIN**  
Ray Griffin Flying Service  
Route 1  
Summerfield, North Carolina  
Applicator and Contractor

**WILLIAM E. GUNN**  
P. O. Box T  
Lafayette, Louisiana  
123 Brockton Drive  
Carancro, Louisiana  
Applicator

**SHERMAN W. HANKE**  
Box 29  
Summerfield, Florida  
Applicator and Contractor

**WAYNE J. HENNINGES**  
P. O. Box 1231  
New Bern, North Carolina  
Applicator

**WALTER E. HIGHT, JR.**  
c/o Turner's Flying Service  
Henderson, North Carolina  
Applicator

**GEORGE VON HOLDT**  
c/o King Flying Service  
Route 2  
King, North Carolina  
Fertile, Minnesota  
Applicator

**HOLLEY DUSTING SERVICE, INC.**  
Meyer Flying Service  
Hendersonville, North Carolina  
P. O. Box 945  
Homestead, Florida  
Contractor

**ROBERT A. HOLMAN**  
Route 2  
King, North Carolina  
Applicator

**JERNIGAN SPRAY SERVICE, INC.**  
P. O. Box 488  
Ahoskie, North Carolina  
Contractor

**PERRY W. JONES**  
325 Spring Street  
Hendersonville, North Carolina  
Applicator

**JOSH JORDAN**  
Candor, North Carolina  
Applicator and Contractor

**ROBERT M. KEENAN**  
Box 1331  
Burlington, North Carolina  
411 West 5th Street  
Greenville, North Carolina  
Applicator

**ROBERT ARNOLD KELLER**  
Route 3, Box 22B  
Clinton, North Carolina  
Watervliet, Michigan  
Applicator

**KING FLYING SERVICE**  
Route 2  
King, North Carolina  
Contractor

CLAIR KLINGER  
c/o Dillard Powell  
Ruffin, North Carolina  
Box 214  
Groveland, Florida  
Applicator

JOHN D. KROM  
c/o Marshall Denny  
Route 2  
King, North Carolina  
Applicator

ROBERT C. LANGSTON  
Greenville, North Carolina  
Arlington 6, Virginia  
Applicator

CLARENCE ROBERT LAY  
P. O. Box 741  
Washington, North Carolina  
Applicator

DWIGHT LOHR  
Dellwood Drive  
Archdale, North Carolina  
Applicator and Contractor

JACK LOWERS  
Route 3, Box 22B  
Clinton, North Carolina  
Applicator and Contractor

JIMMY FLETCHER MARKHAM  
P. O. Box 842  
Washington, North Carolina  
Elizabeth City, North Carolina  
Applicator

ERNEST H. MARSHALL  
55 Mt. Airy Street  
Hendersonville, North Carolina  
Homestead, Florida  
Applicator

F. F. MARTENS  
Route 5, Box 332B  
Hendersonville, North Carolina  
Perrine, Florida  
Applicator

S. S. MILLER  
Chatham, Virginia  
Applicator

CLARENCE T. MODLIN  
205 Wilson Street  
Laurinburg, North Carolina  
Applicator

WALTER C. MYERS  
635 Oak Grove Drive  
Graham, North Carolina  
Applicator and Contractor

DARWIN McCLURE  
P. O. Box 231  
Washington, North Carolina  
Colchester, Illinois  
Applicator

LELAND S. McMAHON  
Route 2  
Reidsville, North Carolina  
Applicator and Contractor

R. A. NAYLOR  
P. O. Box 63  
Clinton, North Carolina  
Applicator

HARRY W. NELSON  
Route 1  
Dover, North Carolina  
P. O. Box 883  
Ft. Pierce, Florida  
Applicator and Contractor

MARSHALL J. NEWMAN  
606 Kirby Street  
Raleigh, North Carolina  
Route 1  
Clinton, North Carolina  
Applicator

NEIL F. OLESON  
Wilson Airport  
Wilson, North Carolina  
Applicator and Contractor

DELMAR C. OWENS  
P. O. Box 183  
Columbia, North Carolina  
Applicator and Contractor

PAMLICO FLYING SERVICE  
P. O. Box 1231  
New Bern, North Carolina  
Contractor

GROVER T. PARKS  
Climax, North Carolina  
Applicator

PETROLEUM HELICOPTERS, INC.  
P. O. Box T  
Lafayette, Louisiana  
Contractor

DILLARD M. POWELL  
Ruffin, North Carolina  
Contractor

F. M. POWELL  
1705 Powatan Street  
Fayetteville, North Carolina  
Applicator and Contractor

JAMES C. PRICE  
Route 1  
Airport Road  
Dillon, South Carolina  
Applicator and Contractor

JOHN C. PULLEY  
c/o Turner's Flying Service  
Henderson, North Carolina  
810 Stanton Avenue  
Waycross, Georgia  
Applicator

CLAUDE MITCHELL RIDDLE  
Dobson, North Carolina  
Applicator

RIDDLE & POINDEXTER CROP SPRAYING,  
INC.  
Route 2  
Dobson, North Carolina  
Contractor

ROCKY MOUNT AERIAL APPLICATORS  
430 Craig Street  
Rocky Mount, North Carolina  
Contractor

M. M. RODDY  
430 Craig Street  
Rocky Mount, North Carolina  
Applicator

**SCOTLAND FLYING SERVICE, INC.**

205 Wilson Street  
Laurinburg, North Carolina  
Contractor

**NATHAN M. SIMPSON**

Simpson Crop Service, Inc.  
Route 2  
Elon College, North Carolina  
Applicator and Contractor

**SOUTHEASTERN AERIAL CROP SERVICE, INC.**

Morehead-Beaufort Airport, North Carolina  
Box 982  
Ft. Pierce, Florida  
Contractor

**SOUTH EASTERN AIR SERVICE, INC.**

P. O. Box 334  
Greensboro, North Carolina  
Contractor

**THOMAS E. STANCIL, JR.**

Stancil Flying Service  
P. O. Box 101  
Washington, North Carolina  
Applicator and Contractor

**CARL A. SWERTFEGER**

5208 Windermere Avenue  
Norfolk, Virginia  
Applicator

**GENE A. SWOFFORD**

Route 2  
Belhaven, North Carolina  
Applicator

**AYLOR T. TALBOTT**

Aylors Crop Spraying Service  
Halifax Road  
South Boston, Virginia  
Applicator and Contractor

**B. W. TRUEBLOOD**

Southern Blvd.  
Rocky Mount, North Carolina  
Applicator

**ROBERT J. TURNER, JR.**

Turner's Flying Service  
543 Rowland Street  
Henderson, North Carolina  
Applicator and Contractor

**FREDERICK J. VAUDRIN**

Vaudrin Air Spray  
c/o Spot Mabe  
Danbury, North Carolina  
1101 South 7th Street  
Minneapolis, Minnesota  
Applicator and Contractor

**ALBERT R. VAUGHAN**

Al's Crop Spraying Service  
Route 3  
Virgillina, Virginia  
Applicator and Contractor

**GEORGE D. WALTERS**

P. O. Box 84  
Elizabeth City, North Carolina  
Applicator and Contractor

**H. C. WARF**

Warf's Flying Service  
Route 6  
Reidsville, North Carolina  
Applicator and Contractor

**A. J. WARREN**

Route 3  
Clinton, North Carolina  
Applicator

**FRED L. WHITFIELD**

Fred's Spray Service  
Route 7  
Burlington, North Carolina  
Applicator and Contractor

**ROBERT O. WHITFIELD**

Whitfield Airplane Spraying  
Hurdle Mills, North Carolina  
Applicator and Contractor

**JOHN H. WHITTINGTON**

1920 Eastway Drive  
Charlotte, North Carolina  
Applicator

**J. B. WILLIAMS, JR.**

1320 Horne Street  
Rocky Mount, North Carolina  
Applicator

**ROY W. WOOD**

c/o 205 Wilson Street  
Laurinburg, North Carolina  
Raeford, North Carolina  
Applicator

**YADKIN VALLEY, INC.**

Route 1  
Pfaftown, North Carolina  
Contractor

## Chemical and Common Names of Economic Poisons

### ALDRIN:

Hexachlorohexahydro-endo, exo-dimethanonaphthalene

### ALLETHRIN:

dl-2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one ester of dl-cistrans-chrysanthemum monocarboxylic acid

### ARAMITE:

2(p-tert-butylphenoxy) isopropyl-2-chloroethyl sulfite; Beta-chloroethyl Beta-(p-tertiary-butylphenoxy)-a-methyl ethyl sulfite

### ARSENIC TRIOXIDE:

Arsenious oxide

### BAYTEX; BAYER 29493:

O, O-Dimethyl O-(4-methylthio-m-tolyl) phosphorothioate

### BHC:

Benzene hexachloride; 1,2,3,4,5,6-Hexachlorocyclohexane

### BORAX:

Sodium tetraborate decahydrate

### BORIC ACID:

Boric acid; orthoboric acid

### CALCIUM ARSENATE:

Tricalcium arsenate

### CALCIUM CYANIDE:

Calcium cyanide

### CAPRYL:

See Karathane

### CAPTAN:

N-trichloromethylmercapto-4-cyclohexene-1,2-dicarboximide;  
N-trichloromethylthio tetrahydrophthalimide

### CHLORANIL; SPERGON:

2,3,5,6-Tetrachloro-1,4-benzoquinone

### CHLORDANE:

1,2,4,5,6,7,8,8 Octachloro-4,7-methano-3a,4,7,7a-tetrahydroindane

### CHLOROTHION:

O,O-Dimethyl O-(3-chloro-4-nitrophenyl) phosphorothioate

### COPPER ARSENATE (BASIC):

Cupric arsenate (Basic)

### 2,4-D:

2,4-Dichlorophenoxyacetic acid

### DDD:

Dichloro diphenyl dichloroethane; 2,2 bis-(p-chlorophenyl)-1,1-dichloroethane

### DDT:

Dichloro diphenyl trichloroethane; trichloro bis-(4-chlorophenyl) ethane

**DDVP:**

O,O-Dimethyl-2,2-dichloro vinyl phosphate

**DEMETON:**

Beta-ethylmercapto-ethyl diethyl thionophosphate

**DIAZINON:**

O,O-diethyl O-(2-isopropyl-4 methyl-6-pyrimidinyl) phosphorothioate

**DICHLONE; PHYGON:**

2,3-Dichloro-1,4-naphthoquinone

**DIELDRIN:**

Hexachloroepoxyoctahydro-endo,exo-dimethanonaphthalene

**DIMITE:**

1,1-Bis (p-chlorophenyl)-ethanol

**DINITRO ORTHO CRESOL:**

4,6-Dinitro-o-cresol; 2-methyl-4,6-dinitro-phenol

**DIPTEREX:**

O,O-Dimethyl-1-hydroxy-2,2,2-trichloroethyl phosphonate; Dimethyl-trichloro-hydroxyethylphosphate

**DISODIUM METHYL ARSONATE:**

Disodium methane arsonate hexahydrate

**ENDRIN:**

Hexachloroepoxyoctahydro-endo, endo-dimethanonaphthalene

**FERBAM:**

Ferric dimethyldithiocarbamate

**FUMARIN:**

3-(1-Furyl-2-acetyl-ethyl) 4-hydroxycoumarin

**GLYODIN:**

2-Heptadecyl-2-imidazoline

**GUTHION:**

O,O-Dimethyl S-(4-oxo-1,2,3-benzotriazinyl-3-methyl) phosphorodithioate

**HEPTACHLOR:**

1,4,5,6,7,8,8a-Heptachloro-3a,4,7,7a-tetrahydro-4,7-endo-methanoindane

**HEXACHLOROPHENE:**

2,2'-Methylene-bis(3,4,6-trichlorophenol)

**KARATHANE; CAPRYL:**

4,6-Dinitro-2-caprylphenyl crotonate; 2-(1-methyl)-4,6-dinitrophenyl crotonate

**KELTHANE:**

1,1-bis (p-chlorophenyl)-2,2,2-trichloroethanol; Bis (p-chlorophenyl) trichloroethanol

**KEPONE:**

Decachlorooctahydro-1,3,4-methano-2H-cyclobuta (cd) pentalen-2-one

**KORLAN; RONNEL:**

Dimethyl trichlorophenyl thiophosphate; O,o-Dimethyl O-2,4,5-trichlorophenyl phosphorothioate

**LETHANE A-70:**

Beta Beta dithiocyano diethyl ether

**LETHANE 60:**

Beta-thiocyanoethyl esters of  $C_{10}$ - $C_{18}$  aliphatic fatty acids

**LETHANE 384:**

Beta-Butoxy-Beta-thiocyano-diethyl ether

**MALATHION:**

O,O-Dimethyl dithiophosphate of diethyl mercaptosuccinate;  
S-(1,2-dicarbethoxethyl) O,O-dimethyl dithiophosphate

**MANEB:**

Manganese ethylenebisdithiocarbamate

**METALDEHYDE:**

Metaldehyde; metacetaldehyde

**METHOXYCHLOR:**

2,2-bis (p-methoxyphenyl)-1,1,1-trichloroethane

**METHYL PARATHION:**

O,O-Dimethyl-o-p-nitrophenyl thiophosphate

**METHYL TRITHION:**

O,O-Dimethyl S-(p-chlorophenylthio) methyl phosphorodithioate

**MONURON:**

3-(p-chlorophenyl)-1,1-dimethylurea

**MYLONE:**

3,5-Dimethyltetrahydro-1,3,5,2H-thiadiazine-2-thione

**NEBURON:**

1-n-Butyl-3-(3,4-dichlorophenyl)-1-methylurea

**NEMAGON:**

1,2-Dibromo-3-chloropropane

**NICOTINE:**

1,Methyl-2-(3-pyridyl) pyrrolidine

**OVEX:**

p-Chlorophenyl p-chlorobenzenesulfonate

**PARADICHLOROBENZENE:**

1,4-Dichlorobenzene

**PARATHION:**

O,O-Diethyl-o-paranitrophenyl thiophosphate

**PARIS GREEN:**

Copper acetoarsenite

**PERTHANE:**

1,1-Dichloro-2,2-bis-(p-ethylphenyl) ethane

**PHALTAN:**

N-(trichloromethylthio) phthalimide

**PHENOL:**

Carbolic Acid

**PHOSDRIN:**

Alpha isomer of 2-carbomethoxy-1-methylvinyl dimethyl phosphate

**PIPERONYL BUTOXIDE:**

Butylcarbityl-6-(propyl piperonyl) ether

**PIPERONYL CLCLONENE:**

3,Isoamyl-5-(methylenedioxyphenyl)-2-cyclo-hexenone

**PIVAL:**

2-Pivalyl-1,3-indandione

**PIVALYN:**

Sodium salt of 2-Pivalyl-1,3-indandione

**POTASSIUM CYANATE:**

Potassium cyanate

**PYRETHRUM:**

Chrysanthemum cineroreaeefolium

**ROTENONE:**

Rotenone

**SABADILLA:**

Schoenocaulon officinale

**SEVIN:**

1-Naphthyl-N-methyl-carbamate

**SILVEX:**

2-(2,4,5-Trichlorophenoxy) propionic acid

**SODIUM ARSENATE:**

Sodium meta-arsenate

**SODIUM ARSENITE:**

Sodium meta-arsenite

**SODIUM FLUORIDE:**

Sodium fluoride

**SODIUM FLUOSILICATE:**

Sodium fluosilicate; sodium silicofluoride

**STRYCHNINE:**

Strychnine

**STROBANE:**

Mixture of heptachlorocamphene, heptachloropinene and other chlorinated terpenes

**SULFUR:**

Sulfur

**2,4,5-T:**

2,4,5-Trichlorophenoxyacetic acid

**TEDION:**

2,4,5,4'-Tetrachlorodiphenyl sulphone

**TERRACHLOR:**

Pentachloronitrobenzene

**THALLIUM SULFATE:**

Thallous sulfate

**THANITE:**

Isobornyl thiocyanate

**THIODAN:**

6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexa-hydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide

**THIRAM:**

Tetramethylthiuram disulfide

**TOXAPHENE:**

Octachlorocamphene

**TRITHION:**

O,O-Diethyl S-p-chlorophenylthiomethyl phosphorodithioate

**VAPAM:**

Sodium N-methyl dithiocarbamate dihydrate

**VAPONA:**

2,2 Dichlorovinyl dimethyl phosphate

**WARFARIN:**3-( $\alpha$ -Acetylbenzyl)-4-hydroxycoumarin**ZINEB:**

Zinc etheylenebisdithiocarbamate

**ZIRAM:**

Zinc dimethyldithiocarbamate

# Official Analyses of Economic Poisons 1962

# Summary of Economic Poisons Examined — 1962

TYPES	S A M P L E S				
	Passed	De- ficient	Exces- sive Active Ingre- dient	Mis- branded	Not Regis- tered
<b>Arsenicals</b>					
Arsenic Trioxide.....	14	7	1	....	....
Copper Acetoarsenite.....	1	....	....	....	....
Disodium Methyl Arsonate.....	....	....	1	....	....
Lead Arsenate.....	7	....	....	....	....
Sodium Arsenate.....	1	1	....	1	....
Tricalcium Arsenate.....	1	....	....	....	....
<b>Organic Chlorine Compounds</b>					
Aldrin preparations.....	19	2	....	....	....
BHC preparations.....	43	6	3	1	2
BHC-DDT Preparations.....	37	3	....	....	....
Captan preparations.....	5	....	....	....	....
Chlordane preparations.....	48	4	....	....	1
2,4-D preparations.....	4	1	....	....	....
DDD preparations.....	54	2	....	....	1
DDT.....	72	6	....	....	3
DDT with other compounds.....	124	11	1	....	4
Dibrom.....	3	....	....	....	....
Dieldrin preparations.....	9	....	2	....	....
Dipterex.....	4	....	....	....	....
Endrin preparations.....	48	1	....	....	....
Heptachlor.....	19	....	....	....	....
Kepone.....	1	....	....	....	....
Methoxychlor preparations.....	31	....	....	....	....
Nemagon.....	2	2	....	1	....
Pentachlorophenols.....	1	....	....	....	....
Perthane.....	8	....	....	....	....
Ronnel.....	2	....	....	....	....
Silvex.....	1	....	....	....	....
Thiodan.....	1	....	....	....	....
Toxaphene preparations.....	113	5	....	....	....
Trithion.....	....	....	1	....	....
<b>Metallic Compounds</b>					
Copper.....	1	1	....	....	....
DDVP.....	4	....	1	....	....
Diazinon.....	1	....	....	....	....
Guthion.....	1	....	....	....	....
Malathion.....	56	19	1	1	2
Metallic Dithiocarbamate preparations.....	17	7	....	....	....
Methyl Parathion.....	2	....	....	....	....
Phosdrin.....	4	....	....	....	....
Phosphorus.....	3	....	....	....	....
Thallium Sulfate.....	14	....	....	....	....
<b>Botanicals</b>					
Nicotine.....	2	....	....	....	1
Pyrethrin preparations.....	35	1	....	1	....
Rotenone preparations.....	57	10	....	....	....
Sabadilla.....	9	....	....	....	....
<b>Miscellaneous</b>					
Baytex.....	1	....	....	....	....
Borax.....	1	....	....	....	....
Calcium Cyanide.....	1	....	....	....	....
Dinitro Ortho Cresol.....	2	....	....	....	....
Fluorine compounds.....	6	3	....	....	1
Fumaric.....	5	....	....	....	....
Lethane compounds.....	1	1	....	....	....
Mylone.....	1	....	....	....	....
N-Alkyl (98% C <sub>12</sub> , 2% C <sub>14</sub> ) Dimethyl (1-methyl naphthyl) ammonium chloride monohydrate.....	....	1	....	....	....
Naphthalene.....	4	....	....	....	....
Parathion-Sulfur preparations.....	1	....	....	....	....
Phenols.....	1	....	....	....	....
Pival compounds.....	4	....	....	....	....
Sevin preparations.....	44	3	2	....	....
Sulfur.....	....	....	....	2	....
Warfarin.....	16	....	....	....	....
<b>TOTALS.....</b>	<b>967</b>	<b>97</b>	<b>13</b>	<b>7</b>	<b>15</b>

Number manufacturers registered (total) .....	409
Number manufacturers registered from North Carolina .....	61
Number of items registered .....	4,064
Number stop sale orders issued .....	105
Number of items stopped from sale because of failure to register ....	36

## Decisions

The results of analyses of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

**"Passed"** signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

**"Deficient"** usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling. In borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

**"Adulterated"** indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analysis may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

**"Misbranded"** signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing, skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as sabadilla seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

**"Not Registered"** signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

## Official Analyses of Economic Poisons, 1962

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*
<b>ALDRIN</b>			
<b>California Spray-Chemical Corp.</b> (Now: California Chemical Company-Ortho Div.)			
Ortho Aldrin 2 Emulsive			
Aldrin .....	23.79	23.62	Passed
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand Aldrin Emulsion Four Pounds			
Aldrin .....	44.00	46.47	Passed
do .....	44.00	46.56	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Aldrin Emulsifiable Concentrate			
Aldrin .....	23.32	22.27	Passed
do .....	23.32	25.27	Passed
do .....	23.32	21.13	Deficient
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 5% Aldrin Granular			
Aldrin .....	5.00	5.00	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Aldrin 5% Granules			
Aldrin .....	5.00	5.71	Passed
Aldrin 5% (Granules)			
Aldrin .....	5.00	4.49	Deficient
Mathieson Aldrin 4 lb. Emulsifiable			
Aldrin .....	42.74	40.96	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 5% Aldrin Granulated			
Aldrin .....	5.00	5.50	Passed
do .....	5.00	4.82	Passed
Pelco 2 lbs. Aldrin Emulsifiable Concentrate			
Aldrin .....	24.50	24.34	Passed
do .....	24.50	23.21	Passed
do .....	24.50	24.19	Passed
<b>Planters Chemical Corp.</b>			
Planters 5% Aldrin Granular			
Aldrin .....	5.00	5.93	Passed

\*See preceding page for explanation of "Decisions."

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 5% Aldrin Granules			
Aldrin .....	5.00	5.61	Passed
do .....	5.00	5.21	Passed
SA-50 Brand 25% Aldrin Granules			
Aldrin .....	25.00	27.85	Passed
<b>ALDRIN-CAPTAN</b>			
<b>California Chemical Company-Ortho Div.</b>			
Ortho Bird Repellent and Seed Protectant			
Aldrin .....	20.00		Passed
Captan .....	12.50		
Theoretical chlorine .....	16.06	16.50	
Aldrin .....	20.00		Passed
Captan .....	12.50		
Theoretical chlorine .....	16.06	16.50	
<b>ARSENICALS</b>			
<b>ARSENIC TRIOXIDE</b>			
<b>M. A. Chapman and Son</b>			
Kill-Em Rat Poison			
Arsenic trioxide .....	2.00	1.90	Passed
do .....	2.00	1.96	Passed
do .....	2.00	2.19	Passed
do .....	2.00	2.25	Passed
do .....	2.00	2.07	Passed
do .....	2.00	2.02	Passed
do .....	2.00	2.19	Passed
do .....	2.00	1.81	Deficient
do .....	2.00	1.74	Deficient
do .....	2.00	1.68	Deficient
Kill-Em Rat Poison			
Arsenic trioxide .....	2.20	1.65	Deficient
do .....	2.20	2.08	Deficient
<b>S. L. Cowley and Sons Manufacturing Co.</b>			
Cowley's Rat and Mouse Poison			
Arsenic trioxide .....	1.75	2.11	Passed
do .....	1.75	2.21	Passed
<b>F. B. Singletary Jr. and Co.</b>			
Singletary's Single Treatment Pest Control			
Arsenic trioxide .....	3.50	5.51	Excessive Active Ingredient
do .....	3.50	2.79	Deficient
do .....	3.50	3.63	Passed
do .....	3.50	3.57	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Chemical Co.</b>			
Nok-Out-Bam			
Arsenic trioxide .....	3.00	2.71	Deficient
do .....	3.00	3.79	Passed
do .....	3.00	3.30	Passed
do .....	3.00	3.79	Passed
<b>COPPER ACETOARSENITE</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Paris Green			
Copper acetoarsenite .....	90.00		Passed
Arsenic as metallic .....	40.00	40.92	
Water soluble arsenic (not more than) .....	2.70	0.70	
Copper as metallic .....	23.00	24.32	
<b>DISODIUM METHYL ARSONATE</b>			
<b>O. M. Scott and Sons Co.</b>			
Scotts Clout			
Disodium methyl arsonate hexahydrate .....	2.50	4.70	Excessive
Arsenic water soluble (not more than) .....	0.64	0.18	Active Ingredient
<b>LEAD ARSENATE</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Arsenate of Lead			
Arsenate of lead .....	98.00		Passed
Total arsenic as metallic .....	21.15	21.62	
Arsenic water soluble (not more than) .....	0.50	0.45	
Lead as metallic .....	58.00	59.59	
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Lead Arsenate			
Lead arsenate .....	97.00		Passed
Arsenic as metallic .....	20.90	21.18	
Arsenic water soluble (not more than) .....	0.33	0.12	
Lead as metallic .....	57.80	58.85	
Lead arsenate .....	97.00		Passed
Arsenic as metallic .....	20.90	24.76	
Arsenic water soluble (not more than) .....	0.33	0.22	
Lead as metallic .....	57.80	58.47	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**LEAD ARSENATE-CAPTAN-DDT****United Cooperatives, Inc.****(Registered by Farmers Cooperative Exchange, Inc.)**

Unico Fruit Spray Powder

Lead arsenate	25.00	24.56	Passed
Total arsenic as metallic	5.39	5.67	
Arsenic water soluble (not more than)	0.50	0.15	
Captan	10.00		
DDT	10.00		
Theoretical chlorine	8.54	8.33	

**LEAD ARSENATE-COPPER-SULFUR-ZINC****Taylor Chemical Co.**

Superkill Pan Apple Spray

Lead arsenate	16.00		Passed
Arsenic as metallic	3.00	4.52	
Arsenic water soluble (not more than)	0.30	0.05	
Copper as metallic	3.20	3.18	
Sulfur	38.00	40.56	
Zinc as metallic	4.60	4.61	

**LEAD ARSENATE-SULFUR-ZINC****Woolfolk Chemical Works, Ltd.**

Security Brand Pan Peach Spray

Lead arsenate	11.50		Passed
Arsenic as metallic	2.40	2.34	
Arsenic water soluble (not more than)	0.20	0.05	
Sulfur	34.00	32.44	Passed
Zinc as metallic	9.60	12.32	
Lead arsenate	11.50		
Arsenic as metallic	2.40	2.34	
Arsenic water soluble (not more than)	0.20	0.10	
Sulfur	34.00	33.58	
Zinc as metallic	9.60	9.55	

**SODIUM ARSENATE****Atla Chemical Company, Inc.**

Atla Anti-Ant

Sodium arsenate	1.88		Passed
Arsenic as metallic	0.75	0.89	
Arsenic water soluble	0.75	0.76	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mahaffey Co.</b>			
Mahaffey's Ant Killer			
Sodium arsenate .....	6.00	3.05	Deficient Misbranded
<b>TRICALCIUM ARSENATE-COPPER</b>			
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Tomato Dust			
Tricalcium arsenate .....	60.00		Passed
Arsenic as metallic .....	22.69	22.84	
Arsenic water soluble (not more than) .....	0.49	0.39	
Copper as metallic .....	7.00	6.90	
<b>BHC</b>			
<b>Aceline Products Corp.</b>			
Ace Flea Collar with Lindane for Cats			
Gamma isomer of BHC .....	0.75	0.41	Deficient
<b>California Chemical Company-Ortho Div.</b>			
Ortho Louse, Flea and Tick Powder			
Gamma isomer of BHC .....	1.00	1.12	Passed
<b>California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)</b>			
Ortho Louse, Tick and Flea Powder			
Gamma isomer of BHC .....	1.00	0.95	Passed
Ortho Isotox Transplanter Solution			
Gamma Isomer of BHC .....	5.00	8.00	Excessive Active Ingredient
do .....	5.00	8.04	Excessive Active Ingredient
do .....	5.00	7.95	Excessive Active Ingredient
do .....	5.00	7.59	Passed
do .....	5.00	7.74	Passed
Ortho Isotox 25 Wettable			
Gamma isomer of BHC .....	25.00	25.18	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 1% Lindane Dust			
Gamma isomer of BHC .....	1.00	1.03	Passed
FCX 25% Lindane Wettable Spray Powder			
Gamma isomer of BHC .....	25.00	25.00	Passed
do .....	25.00	25.36	Passed
<b>Dr. L. D. LeGear Medicine Co.</b>			
<b>(Now: Dr. LeGear, Inc.)</b>			
Dr. LeGear's Louse Powder			
Gamma isomer of BHC .....	1.00	1.10	Passed
do .....	1.00	1.00	Passed
do .....	1.00	1.08	Passed
do .....	1.00	1.08	Passed
do .....	1.00	1.03	Passed
do .....	1.00	1.10	Passed
do .....	1.00	1.00	Passed
<b>Science Products Co.</b>			
Science Products 5% Lindane Spray			
Gamma isomer of BHC .....	5.00	7.89	Misbranded Not Registered
<b>Taylor Chemical Co.</b>			
Superkill Transplant Solution			
Gamma isomer of BHC .....	5.00	5.41	Passed
<b>United Cooperatives, Inc.</b>			
<b>(Registered by Farmers Cooperative Exchange, Inc.)</b>			
Unico BHC Emulsifiable Concentrate			
Gamma isomer of BHC .....	11.00	11.11	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Benzex Wettable Benzene Hexachloride			
Gamma isomer of BHC .....	6.00	5.86	Passed
Security Brand BHC Concentrate Emulsifiable			
Gamma isomer of BHC .....	11.50	11.91	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>BHC-ARAMITE-DDT-ZINEB</b>			
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell's New Formula Rose Dust			
Gamma isomer of BHC	1.00		Passed
Aramite	1.50		
DDT	5.00		
Zineb	6.00	6.56	
Theoretical chlorine	3.39	3.39	
Gamma isomer of BHC	1.00		Passed
Aramite	1.50		
DDT	5.00		
Zineb	6.00	5.76	
Theoretical chlorine	3.39	3.32	
<b>BHC-ARAMITE-FERBAM-METHOXYCHLOR-SULFUR</b>			
<b>E. I. du Pont de Nemours and Co.</b>			
Du Pont Rose Insecticide and Fungicide			
Gamma isomer of BHC	1.00		Deficient
Aramite	1.50		
Ferbam	7.60	7.14	
Methoxychlor	5.00		
Sulfur	27.00	28.96	
Theoretical chlorine	2.41	2.54	
<b>The Sherwin-Williams Co.</b>			
<b>(Registered by Acme Quality Paints, Inc.)</b>			
Sherwin-Williams Rose Dust			
Gamma isomer of BHC	1.00		Passed
Aramite	1.50		
Ferbam	7.60	7.23	
Methoxychlor	5.00		
Sulfur	10.00	10.35	
Theoretical chlorine	2.41	2.55	Deficient
Gamma isomer of BHC	1.00		
Aramite	1.50		
Ferbam	7.60	6.75	
Methoxychlor	5.00		
Sulfur	10.00	10.50	
Theoretical chlorine	2.41	2.75	
<b>BHC-CAPTAN-PIPERONYL BUTOXIDE-PYRETHRINS-ROTENONE</b>			
<b>Boyle-Midway, Inc.</b>			
Antrol Multi Purpose Rose Spray Flower Bomb			
Gamma isomer of BHC	1.00		Passed
Captan	0.500		
Piperonyl butoxide	0.250	0.150	
Pyrethrins	0.025	0.022	
Rotenone	0.200	Present	
Theoretical chlorine	0.900	1.110	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Black Flag Flower Bomb			
Gamma isomer of BHC .....	1.00		Passed
Captan .....	0.500		
Piperonyl butoxide .....	0.250	0.276	
Pyrethrins .....	0.025	0.028	
Rotenone .....	0.200	Present	
Theoretical chlorine .....	0.900	0.770	
BHC-DDT			
California Chemical Company-Ortho Div.			
Ortho BHC-DDT 3-5 Dust			
Gamma isomer of BHC .....	3.00	3.26	Passed
DDT .....	5.00	5.36	
Ortho BHC-DDT 3-7 Dust			
Gamma isomer of BHC .....	3.00	3.10	Passed
DDT .....	7.00	6.76	
Ortho BHC-DDT 3-10 Dust			
Gamma isomer of BHC .....	3.00	3.37	Passed
DDT .....	10.00	10.54	
Gamma isomer of BHC .....	3.00	3.00	Passed
DDT .....	10.00	10.09	
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Ortho BHC-DDT 3-10 Dust			
Gamma isomer of BHC .....	3.00	3.65	Passed
DDT .....	10.00	10.60	
Carolina Chemicals, Inc.			
Flight Brand BHC-DDT Dust 3-10-0			
Gamma isomer of BHC .....	3.00	3.40	Passed
DDT .....	10.00	11.11	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-0 BHC+DDT Dust			
Gamma isomer of BHC .....	3.00	3.26	Passed
DDT .....	5.00	5.41	
Olin Mathieson Chemical Corp.			
Mathieson 3-5-0 Cotton Dust			
Gamma isomer of BHC .....	3.00	3.46	Passed
DDT .....	5.00	6.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mathieson 3-10-0 Cotton Dust</b>			
Gamma isomer of BHC .....	3.00	2.90	Passed
DDT .....	10.00	11.25	
Gamma isomer of BHC .....	3.00	2.94	Passed
DDT .....	10.00	14.44	
<b>Niagara Chemical Div. Food Machinery and Chemical Corp.</b>			
<b>Niagara 3-10-0 Cotton Dust</b>			
Gamma isomer of BHC .....	3.00	3.74	Passed
DDT .....	10.00	9.65	
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 3-10 Cotton Dust</b>			
Gamma isomer of BHC .....	3.00	3.45	Passed
DDT .....	10.00	10.47	
<b>Ralston Purina Co.</b>			
<b>Purina Stock Spray Powder</b>			
Gamma isomer of BHC .....	2.50	3.27	Passed
DDT .....	25.00	25.38	
<b>Swift and Co. Agricultural Chemical Div.</b>			
<b>Swift's Gold Bear BD 37-D</b>			
Gamma isomer of BHC .....	3.00	3.69	Passed
DDT .....	7.00	7.69	
<b>Taylor Chemical Co.</b>			
<b>Superkill 3-7-0 Cotton Dust</b>			
Gamma isomer of BHC .....	3.00	3.02	Passed
DDT .....	7.00	7.79	
<b>Superkill 3-10-0 Cotton Dust (Without Sulfur)</b>			
Gamma isomer of BHC .....	3.00	3.57	Passed
DDT .....	10.00	10.82	
<b>Woolfolk Chemical Works, Ltd.</b>			
<b>Security Brand 3-5-0 Cotton Dust</b>			
Gamma isomer of BHC .....	3.00	3.44	Passed
DDT .....	5.00	5.81	
<b>Security Brand 3-10-0 Cotton Dust</b>			
Gamma isomer of BHC .....	3.00	3.72	Passed
DDT .....	10.00	11.00	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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## Security Brand Hex-Sol-Special Cotton Spray

Gamma isomer of BHC	12.60	14.25	Passed
DDT	21.10	21.58	

**BHC-DDT-CAPTAN-FERBAM-SULFUR****California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

## Ortho Rose Dust

Gamma isomer of BHC	1.00		Deficient
DDT	5.00		
Captan	7.50		
Ferbam	3.50	2.82	
Sulfur	30.00	31.01	
Theoretical chlorine	5.89	6.35	

Gamma isomer of BHC	1.00		Deficient
DDT	5.00		
Captan	7.50		
Ferbam	3.50	2.84	
Sulfur	30.00	30.51	
Theoretical chlorine	5.89	5.57	

**BHC-DDT-FERBAM-SULFUR****Southern Agricultural Insecticides, Inc.**

## SA-50 Brand Rose Dust

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Ferbam	6.50	6.28	
Sulfur	54.00	53.18	
Theoretical chlorine	3.23	3.43	

**BHC-DDT-PARATHION****Taylor Chemical Co.**

## Superkill 3-10-1 Cotton Dust

Gamma isomer of BHC	3.00	3.68	Passed
DDT	10.00	10.55	
Parathion	1.00	0.95	

**BHC-DDT-PHALTAN-SULFUR****California Chemical Company-Ortho Div.**

## Ortho Rose Dust

Gamma isomer of BHC	1.00		Deficient
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	26.21	
Theoretical chlorine	5.92	6.21	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Ortho Rose Dust (Continued)</b>			
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	30.03	
Theoretical chlorine	5.92	6.00	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	30.38	
Theoretical chlorine	5.92	6.20	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	29.85	
Theoretical chlorine	5.92	6.32	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	30.59	
Theoretical chlorine	5.92	6.08	

**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

**Ortho Rose Dust**

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	29.54	
Theoretical chlorine	5.92	6.22	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	30.86	
Theoretical chlorine	5.92	5.91	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	31.21	
Theoretical chlorine	5.92	6.20	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Phaltan	7.50		
Sulfur	30.00	31.28	
Theoretical chlorine	5.92	5.89	

**BHC-DDT-SULFUR****Farmers Cooperative Exchange, Inc.****FCX 3-5-40 BHC+DDT+Sulfur Dust**

Gamma isomer of BHC	3.00	3.95	Passed
DDT	5.00	5.95	
Sulfur	40.00	39.53	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**Taylor Chemical Co.****Superkill 3-5-40 Cotton Dust**

Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.75	
Sulfur	40.00	41.34	

**Superkill 3-10-40 Cotton Dust**

Gamma isomer of BHC	3.00	3.00	Passed
DDT	10.00	11.09	
Sulfur	40.00	42.16	

**Woolfolk Chemical Works, Ltd.****Security Brand 3-5-40 Cotton Dust**

Gamma isomer of BHC	3.00	3.78	Passed
DDT	5.00	5.66	
Sulfur	40.00	44.18	

**BHC-DDT-MALATHION-TEDION****California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)****Ortho Isotox Garden Spray**

Gamma isomer of BHC	5.00	Passed
DDT	5.00	
Malathion	10.00	10.07
Tedion	3.00	
Theoretical chlorine	7.34	7.60

Gamma isomer of BHC	5.00	Passed
DDT	5.00	
Malathion	10.00	
Tedion	3.00	
Theoretical chlorine	7.34	
		11.62
		8.24

**BHC-DEILDRIIN****California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)****Ortho Lawn-Garden Dieldrin Granules**

Gamma isomer of BHC	1.00	Passed
Dieldrin	4.00	
Theoretical chlorine	2.96	

Gamma isomer of BHC	1.00	Passed
Dieldrin	4.00	
Theoretical chlorine	2.96	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**BHC-DEILDRIIN-PYRETHRINS****Penola Oil Co.****(Now: Humble Oil and Refining Co.)****Flit Pressurized Roach and Ant Killer**

Gamma isomer of BHC	0.05		Passed
Dieldrin	0.45		
Pyrethrins	0.05	0.056	
Theoretical chlorine	0.29	0.25	
Gamma isomer of BHC	0.05		Passed
Dieldrin	0.45		
Pyrethrins	0.05	0.08	
Theoretical chlorine	0.29	0.30	

**BHC-HEXACHLOROPHENE—2,2-THIOBIS-  
(4,6-DICHLOROPHENOL)****Dr. LeGear, Inc.****Dr. LeGear's Flea, Tick Powder**

Gamma isomer of BHC	1.00		Passed
Hexachlorophene	1.00		
2,2-thiobis-(4,6-dichlorophenol)	1.00		
Theoretical chlorine	1.65	1.73	
Gamma isomer of BHC	1.00		Passed
Hexachlorophene	1.00		
2,2-thiobis-(4,6-dichlorophenol)	1.00		
Theoretical chlorine	1.65	1.78	
Gamma isomer of BHC	1.00		Passed
Hexachlorophene	1.00		
2,2-thiobis-(4,6-dichlorophenol)	1.00		
Theoretical chlorine	1.65	1.76	
Gamma isomer of BHC	1.00		Passed
Hexachlorophene	1.00		
2,2-thiobis-(4,6-dichlorophenol)	1.00		
Theoretical chlorine	1.65	1.71	

**BHC-KARATHANE-  
KELTHANE-SEVIN-ZINEB****Woolfolk Chemical Works, Ltd.****Security Brand Pan Plant Dust**

Gamma isomer of BHC	1.00		Deficient
Karathane	1.00		
Kelthane	2.00		
Sevin	5.00		
Zineb	6.00	5.41	
Theoretical chlorine	1.69	1.96	
Theoretical nitrogen	1.03	1.30	
Gamma isomer of BHC	1.00		Deficient
Karathane	1.00		
Kelthane	2.00		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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## Security Dust Pan Plant Dust (Continued)

Sevin .....	5.00		
Zineb .....	6.00	5.06	
Theoretical chlorine .....	1.69	1.96	
Theoretical nitrogen .....	1.03	1.44	

**BHC-MALATHION-PHENOLS****Carbola Chemical Company, Inc.**

## Carbola, The Disinfecting White Paint

Gamma isomer of BHC .....	0.22	0.31	Passed
Malathion .....	0.66	0.32	
Phenols .....	1.60	Present	

**BHC-MALATHION-PINE OIL****Ralston Purina Co.**

## Purina Poultry Insecticide

Gamma isomer of BHC .....	1.45	2.12	Passed
Malathion .....	2.80	2.87	
Pine Oil .....	2.50	Present	

**BHC-METHOXYCHLOR-SULFUR****Ralston Purina Co.**

## Purina Insect Killer

Gamma isomer of BHC .....	0.50		Passed
Methoxychlor .....	2.50		
Sulfur .....	10.00	11.06	
Theoretical chlorine .....	1.13	1.29	
Gamma isomer of BHC .....	0.50		Passed
Methoxychlor .....	2.50		
Sulfur .....	10.00	9.91	
Theoretical chlorine .....	1.13	1.27	

**BHC-NICOTINE ALKALOIDS****Dr. Salisbury's Laboratories**

## Dr. Salisbury Vapo-Roost Spread

Gamma isomer of BHC .....	1.30	1.36	Passed
Nicotine alkaloids .....	4.00	4.02	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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### BHC-OVEX-PHALTAN- PYRETHRINS-ROTENONE

#### California Spray-Chemical Corp.

(Now: California Chemical Company-Ortho Div.)

#### Ortho Rose and Flower Bomb

Gamma isomer of BHC	0.50		Passed
Ovex	0.125		
Phaltan	0.50		
Pyrethrins	0.025	0.032	
Rotenone	0.20	Present	
Theoretical chlorine	0.57	0.62	

Gamma isomer of BHC	0.50		Passed
Ovex	0.125		
Phaltan	0.50		
Pyrethrins	0.025	0.034	
Rotenone	0.20	Present	
Theoretical chlorine	0.57	0.56	

Gamma isomer of BHC	0.50		Deficient
Ovex	0.125		
Phaltan	0.50		
Pyrethrins	0.025	0.032	
Rotenone	0.20	Present	
Theoretical chlorine	0.57	0.40	

### BHC-SULFUR

#### Ralston Purina Co.

#### Purina Hog and Cattle Dusting Powder

Gamma isomer of BHC	1.00	1.27	Passed
Sulfur	10.00	10.07	

Gamma isomer of BHC	1.00	1.20	Passed
Sulfur	10.00	10.26	

Gamma isomer of BHC	1.00	1.13	Passed
Sulfur	10.00	9.52	

Gamma isomer of BHC	1.00	1.23	Passed
Sulfur	10.00	10.20	

Gamma isomer of BHC	1.00	1.20	Passed
Sulfur	10.00	9.78	

### BHC-TOXAPHENE

#### Anchor Serum Co.

#### Anchor An-Tox Livestock Spray Concentrate

Gamma isomer of BHC	1.00		Not
Toxaphene	45.00		Registered
Theoretical chlorine	30.88	32.24	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

## Ortho Kleen Stock Spray or Dip

Gamma isomer of BHC	1.70		Passed
Toxaphene	43.40		
Theoretical chlorine	30.32	31.98	

**Ralston Purina Co.**

## Purina Range Cattle Spray

Gamma isomer of BHC	0.45		Passed
Toxaphene	45.00		
Theoretical chlorine	30.47	31.41	

**CAPTAN****California Chemical Company-Ortho Div.**

## Orthocide 75 Seed Protectant

Captan	75.00	78.77	Passed
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**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

## Orthocide 10 Dust

Captan	10.00	10.02	Passed
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## Orthocide Garden Fungicide

Captan	50.00	49.64	Passed
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**Stauffer Chemical Co.**

## Stauffer Captan 50-W

Captan	50.00	51.53	Passed
do	50.00	51.53	Passed

**CHLORDANE****Acme Quality Paints, Inc.**

## Acme 6% Chlordane Dust

Chlordane	6.00	6.43	Passed
do	6.00	6.77	Passed

## Acme 45% Chlordane Spray

Chlordane	45.00	46.43	Passed
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**California Chemical Company-Ortho Div.**

## Ortho Chlordane 8 Emulsive

Chlordane	72.00	73.82	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>California Spray-Chemical Corp.</b> (Now: California Chemical Company-Ortho Div.)			
Ortho-Klor 10 Chlordane Dust			
Chlordane .....	10.00	10.21	Passed
do .....	10.00	9.64	Passed
Ortho-Klor 44 Chlordane Spray			
Chlordane .....	44.00	45.51	Passed
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand 40% Chlordane			
Chlordane .....	40.00	42.56	Not Registered
<b>The d-Con Company, Inc.</b>			
d-Con Antprufe, Special Formula AP 200			
Chlordane .....	2.00	2.17	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 5% Chlordane Dust			
Chlordane .....	5.00	4.93	Passed
FCX 10% Chlordane Dust			
Chlordane .....	10.00	9.35	Deficient
do .....	10.00	9.72	Passed
do .....	10.00	9.50	Passed
FCX Chlordane Emulsifiable Concentrate			
Chlordane .....	45.00	45.69	Passed
FCX 50% Wetttable Chlordane Powder			
Chlordane .....	50.00	52.83	Passed
do .....	50.00	51.40	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell Chlordane 8 Emulsifiable Concentrate			
Chlordane .....	72.00	72.67	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco Chlordane 8 Emulsifiable Concentrate			
Chlordane .....	72.00	72.72	Passed
<b>Polk Miller Products Corp.</b>			
Sergents Skip-Bath			
Chlordane .....	0.25	0.30	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Rigo Manufacturing Co.</b>			
Kill-Ko 10% Chlordane Dust			
Chlordane .....	10.00	10.79	Passed
do .....	10.00	8.79	Deficient
<b>Sears, Roebuck and Co.</b>			
Cross Country 10% Chlordane Many Purpose Dust			
Chlordane .....	10.00	9.29	Deficient
do .....	10.00	10.71	Passed
<b>The Sherwin-Williams Co.</b>			
(Registered by Acme Quality Paints, Inc.)			
Sherwin-Williams 6% Chlordane Dust			
Chlordane .....	6.00	6.09	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 10% Chlordane Granules			
Chlordane .....	10.00	10.14	Passed
SA-50 Brand 10% Chlordane Dust			
Chlordane .....	10.00	10.00	Passed
do .....	10.00	9.71	Passed
SA-50 Brand 72% Chlordane Emulsion Concentrate			
Chlordane .....	72.00	75.20	Passed
<b>Taylor Chemical Co.</b>			
Superkill 10% Granular Chlordane			
Chlordane .....	10.00	10.17	Passed
do .....	10.00	11.42	Passed
do .....	10.00	10.00	Passed
Superkill 72% Chlordane Emulsifiable Concentrate			
Chlordane .....	72.00	72.70	Passed
<b>Thompson-Hayward Chemical Co.</b>			
T-H Chlordane E-4			
Chlordane .....	45.00	47.36	Passed
<b>United Cooperatives, Inc.</b>			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unico 5% Chlordane Granular			
Chlordane .....	5.00	4.89	Passed
do .....	5.00	6.54	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Unico Chlordane Dust			
Chlordane .....	6.00	6.09	Passed
do .....	6.00	7.84	Passed
Unico Chlordane Emulsifiable Concentrate			
Chlordane .....	45.00	45.71	Passed
Unico Chlordane-8 Emulsifiable Concentrate			
Chlordane .....	73.00	72.94	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 10% Chlordane Dust			
Chlordane .....	10.00	10.57	Passed

**CHLORDANE-BORIC ACID****Heller Laboratories, Inc.**

\$1000.00 Guaranteed Roach Killer

Chlordane .....	0.20	0.30	Deficient
Boric acid .....	51.00	48.24	

**CHLORDANE—DIAZINON—N-OCTYL BICYCLOHEPTENE  
DICARBOXIMIDE—PIPERONYL BUTOXIDE—PYRETHRINS****Hot Shot Quality Products, Inc.**

Hot Shot Diazinon Bug Killer

Chlordane .....	1.00	1.04	Passed
Diazinon .....	0.333		
N-octyl bicycloheptene dicarboximide .....	0.150		
Piperonyl butoxide .....	0.090	0.082	
Pyrethrins .....	0.060	0.078	
Theoretical nitrogen .....	0.038	0.062	

Chlordane .....	1.00	1.00	Passed
Diazinon .....	0.333		

N-octyl bicycloheptene dicarboximide .....	0.150		
Piperonyl butoxide .....	0.090	0.096	
Pyrethrins .....	0.060	0.080	
Theoretical nitrogen .....	0.038	0.076	

Chlordane .....	1.00	1.12	Passed
Diazinon .....	0.333		

N-octyl bicycloheptene dicarboximide .....	0.150		
Piperonyl butoxide .....	0.090	0.110	
Pyrethrins .....	0.060	0.080	
Theoretical nitrogen .....	0.038	0.051	

Chlordane .....	1.00	0.96	Passed
Diazinon .....	0.333		

N-octyl bicycloheptene dicarboximide .....	0.150		
Piperonyl butoxide .....	0.090	0.130	
Pyrethrins .....	0.060	0.080	
Theoretical nitrogen .....	0.038	0.090	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**CHLORDANE-LETHANE 384****Swift and Co.****Agricultural Chemical Div.**

End-O-Pest Ant and Lawn Insect Killer Dust

Chlordane	8.00	8.11	Passed
Lethane 384	1.00	Present	

**CHLORDANE-PIPERONYL  
BUTOXIDE-PYRETHRINS****Colgate-Palmolive Co.**

Colgate Kan-Kil Ant and Roach Killer with Chlordane

Chlordane	2.00	2.57	Passed
Piperonyl butoxide	0.092	0.114	
Pyrethrins	0.046	0.070	

Chlordane	2.00	2.05	Passed
Piperonyl butoxide	0.092	0.080	
Pyrethrins	0.046	0.060	

Chlordane	2.00	2.14	Passed
Piperonyl butoxide	0.092	0.084	
Pyrethrins	0.046	0.060	

**The Dill Company, Inc.**

D-K Roach and Ant Killer

Chlordane	2.00	2.03	Passed
Piperonyl butoxide	0.075	0.070	
Pyrethrins	0.015	0.025	

Chlordane	2.00	2.12	Passed
Piperonyl butoxide	0.115	0.120	
Pyrethrins	0.046	0.060	

**CHLORDANE-PYRETHRINS****C-B Drug Co.**

C-B Double Action Insect Spray

Chlordane	2.00	2.55	Passed
Pyrethrins	0.034	0.070	

**Gulf Oil Corp.**

Gulf Ant Roach Bomb

Chlordane	2.00	1.93	Passed
Pyrethrins	0.08	0.10	

**COPPER****Southern Agricultural Insecticides, Inc.**

SA-50 Brand Tomato Dust

Copper as metallic	7.00	7.00	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
COPPER-SULFUR			
Armour Agricultural Chemical Co.			
Armagard Copper-Sulfur Dust for Peanuts			
Copper as metallic .....	4.00	3.65	Deficient
Sulfur .....	85.00	84.97	
2,4-D COMPOUNDS			
Reasor Hill Corp.			
R-H Granular Weed Rhap-20			
Iso-octyl (2 ethyl hexyl) ester of 2,4-D .....	30.12	30.82	Passed
O. M. Scott and Sons Co.			
Scott's 4-XD Weed Control			
Alkanolomine salts of ethanol and isopropyl series of 2,4-D .....	2.65	3.75	Excessive Active Ingredient
2,4-D equivalent .....	1.60		
Swift and Co.			
Agricultural Chemical Div.			
Gold Bear Amine Weed Control			
Dimethylamine salt of 2,4-D .....	49.00	48.16	Passed
United Cooperatives, Inc.			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unico 2,4-D Amine Weed Killer			
Dimethylamine salt of 2,4-D .....	49.00	47.50	Passed
Unico Lawn Weed Killer			
Dimethylamine salt of 2,4-D .....	49.00	51.15	Passed
DDD			
California Chemical Company-Ortho Div.			
Ortho TDE 10 Dust			
DDD .....	10.00	9.86	Passed
Ortho TDE 2 Spray			
DDD .....	25.00	26.42	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 25% (TDE) Rhothane Emulsion Concentrate			
DDD .....	25.00	25.05	Passed
do .....	25.00	25.74	Passed
do .....	25.00	25.56	Passed
<b>Carolina Chemical Corp.</b>			
Tobacco Spray Rhothane Emulsible Concentrate			
DDD .....	23.98	24.72	Passed
do .....	23.98	23.44	Passed
do .....	23.98	24.20	Passed
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand 25% TDE Emulsion Tobacco Insect Killer			
DDD .....	25.00	24.37	Passed
<b>Coastal Chemical Corp.</b>			
TDE Emulsion			
DDD .....	24.00	25.48	Passed
<b>Daly-Herring Co.</b>			
Bacco 10% TDE Dust			
DDD .....	10.00	10.29	Passed
Bacco Spray Emulsifiable Concentrate			
DDD .....	23.76	29.04	Passed
do .....	23.76	24.30	Passed
do .....	23.76	26.17	Passed
do .....	23.76	24.14	Passed
do .....	23.76	23.65	Passed
do .....	23.76	24.77	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 10% TDE Dust			
DDD .....	10.00	10.36	Passed
FCX TDE Emulsifiable Concentrate			
DDD .....	23.90	24.31	Passed
do .....	23.90	24.76	Passed
<b>Graham Chemical Company, Inc.</b>			
Graham's Red Star 10% Rhothane Dust			
DDD .....	10.00	10.14	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>GurMiCo Chemicals, Inc.</b>			
GurMiCo TDE 25 Emulsion			
DDD .....	25.00	26.10	Passed
do .....	25.00	27.08	Passed
do .....	25.00	25.92	Passed
do .....	25.00	26.17	Passed
do .....	25.00	26.36	Passed
do .....	25.00	26.38	Passed
do .....	25.00	28.16	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 25% Rhothane Emulsion Concentrate			
DDD .....	25.00	25.63	Passed
do .....	25.00	26.13	Passed
do .....	25.00	24.72	Passed
do .....	25.00	25.24	Passed
do .....	25.00	25.69	Passed
<b>Niagara Chemical Div. Food Machinery and Chemical Corp.</b>			
DDD 25 Miscible			
DDD .....	25.00	25.53	Passed
do .....	25.00	26.34	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson TDE (DDD) 25% Emulsifiable Concentrate			
DDD .....	25.00	26.67	Passed
do .....	25.00	24.95	Passed
do .....	25.00	28.25	Passed
do .....	25.00	28.27	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco Rhothane Tobacco Dust			
DDD .....	10.00	9.93	Passed
do .....	10.00	8.86	Deficient
Pelco Tobacco Spray Emulsifiable Concentrate			
DDD .....	23.75	24.63	Passed
do .....	23.75	24.28	Passed
do .....	23.75	23.83	Passed
do .....	23.75	24.45	Passed
<b>Planters Chemical Corp.</b>			
Planters TDE 2 lb. Emulsion Concentrate			
DDD .....	23.80	23.90	Passed
do .....	23.80	23.98	Passed
do .....	23.80	22.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Chemicals, Inc.</b>			
Royal Brand Rhothane Spray Concentrate			
DDD .....	23.80	24.33	Not Registered
<b>Taylor Chemical Co.</b>			
Superkill 24% TDE Emulsifiable Concentrate			
DDD .....	24.00	25.72	Passed
do .....	24.00	26.44	Passed
do .....	24.00	25.94	Passed
do .....	24.00	25.80	Passed
do .....	24.00	24.27	Passed
do .....	24.00	26.04	Passed
<b>DDD-PARATHION</b>			
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Tobacco Dust			
DDD .....	10.00	10.29	Passed
Parathion .....	1.00	0.95	
DDD .....	10.00	10.72	Deficient
Parathion .....	1.00	0.92	
<b>DDT</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme 5% DDT Dust			
DDT .....	5.00	5.71	Passed
Pestroy 25% DDT Concentrate			
DDT .....	25.00	25.63	Passed
<b>Boyle-Midway, Inc.</b>			
Black Flag 25% DDT Emulsion Concentrate			
DDT .....	25.00	24.72	Passed
<b>California Chemical Company-Ortho Div.</b>			
Ortho DDT 5 Dust			
DDT .....	5.00	4.93	Passed
<b>California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)</b>			
Ortho DDT 10 Dust			
DDT .....	10.00	8.46	Deficient
Ortho DDT 50 Wettable			
DDT .....	50.00	51.06	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 10% DDT Dust			
DDT .....	10.00	9.21	Deficient
<b>Carolina Chemical Corp.</b>			
DDT Emulsible Concentrate			
DDT .....	23.98	18.61	Deficient Not Registered
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand 25% DDT Emulsion Concentrate			
DDT .....	25.00	26.46	Passed
Carolina Brand 50% DDT Wettable Powder			
DDT .....	50.00	51.78	Passed
<b>C-B Drug Co.</b>			
C-B DDT Insect Spray			
DDT .....	5.00	7.25	Passed
<b>Coastal Chemical Corp.</b>			
DDT Emulsion			
DDT .....	25.00	28.16	Passed
do .....	25.00	25.35	Passed
do .....	25.00	25.32	Passed
<b>Daly-Herring Co.</b>			
Dee Aitch 10% DDT Dust			
DDT .....	10.00	10.21	Passed
do .....	10.00	10.29	Passed
Dee Aitch 25% DDT Emulsifiable Concentrate			
DDT .....	25.00	24.99	Passed
do .....	25.00	25.77	Passed
do .....	25.00	25.53	Passed
Dee Aitch 50% DDT Wettable Powder			
DDT .....	50.00	48.93	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 5% DDT Dust			
DDT .....	5.00	5.14	Passed
FCX 10% DDT Dust			
DDT .....	10.00	10.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>FCX DDT Emulsifiable Concentrate</b>			
DDT	24.00	24.12	Passed
do	24.00	25.04	Passed
do	24.00	24.39	Passed
do	24.00	25.14	Passed
<b>FCX 50% Wettable DDT Powder</b>			
DDT	50.00	51.06	Passed
do	50.00	49.28	Passed
do	50.00	52.14	Passed
do	50.00	52.47	Passed
<b>Graham Chemical Company, Inc.</b>			
<b>Graham's Red Star Agricultural 5% DDT Dust</b>			
DDT	5.00	4.79	Passed
do	5.00	4.93	Passed
<b>GurMiCo Chemicals, Inc.</b>			
<b>GurMiCo 5% DDT Dust</b>			
DDT	5.00	4.86	Passed
<b>GurMiCo 25% DDT Emulsion</b>			
DDT	25.00	26.69	Passed
do	25.00	25.28	Passed
<b>Hopkins Agricultural Chemical Co.</b>			
<b>Hopkins 50% DDT Wettable Powder</b>			
DDT	50.00	43.20	Deficient Not Registered
<b>Maxwell Insecticide Company, Inc.</b>			
<b>Maxwell 25% DDT Emulsion Concentrate</b>			
DDT	25.00	26.38	Passed
<b>Niagara Chemical Div. Food Machinery and Chemical Corp.</b>			
<b>Niagara Niatox 5 Dust</b>			
DDT	5.00	5.92	Passed
<b>O. E. Linck Company, Inc.</b>			
<b>Tat 35% DDT Solution Concentrate</b>			
DDT	35.00	23.63	Deficient
<b>Olin Mathieson Chemical Corp.</b>			
<b>Mathieson DDT 10% Dust</b>			
DDT	10.00	8.29	Deficient
do	10.00	9.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mathieson DDT 2 lb. Emulsifiable Liquid</b>			
DDT .....	25.00	24.90	Passed
do .....	25.00	26.20	Passed
do .....	25.00	25.36	Passed
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 10% DDT Dust</b>			
DDT .....	10.00	11.85	Passed
<b>Pelco DDT Emulsifiable Concentrate</b>			
DDT .....	23.76	23.54	Passed
do .....	23.76	23.58	Passed
do .....	23.76	23.33	Passed
<b>Planters Chemical Corp.</b>			
<b>Planters DDT 2 lb. Emulsion Concentrate</b>			
DDT .....	23.80	30.01	Passed
do .....	23.80	23.86	Passed
do .....	23.80	23.93	Passed
do .....	23.80	23.35	Passed
do .....	23.80	23.69	Passed
do .....	23.80	23.77	Passed
do .....	23.80	23.44	Passed
<b>Rigo Manufacturing Co.</b>			
<b>Kill-Ko 50% DDT Wettable Powder</b>			
DDT .....	50.00	51.78	Passed
<b>Smith Seed and Feed Co.</b>			
<b>Old Belt Brand Tobacco Flea Beetle Dust</b>			
DDT .....	5.00	4.82	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
<b>SA-50 Brand 5% DDT Dust</b>			
DDT .....	5.00	5.30	Passed
do .....	5.00	5.14	Passed
do .....	5.00	5.43	Passed
do .....	5.00	4.75	Passed
do .....	5.00	5.82	Passed
do .....	5.00	5.07	Passed
do .....	5.00	5.71	Passed
<b>SA-50 Brand 10% DDT Dust</b>			
DDT .....	10.00	10.29	Passed
do .....	10.00	10.95	Passed
do .....	10.00	10.50	Passed
do .....	10.00	10.00	Passed
do .....	10.00	10.14	Passed
do .....	10.00	10.76	Passed
do .....	10.00	9.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>SA-50 Brand 10% DDT Dust (Continued)</b>			
do .....	10.00	10.22	Passed
do .....	10.00	9.86	Passed
do .....	10.00	10.14	Passed
<b>Taylor Chemical Co.</b>			
Superkill 25% DDT Emulsion			
DDT .....	25.00	25.05	Not Registered
<b>Thompson-Hayward Chemical Co.</b>			
T-H Ded-Tox Anti-Resistant 50-10 Wettable Powder			
DDT .....	50.00	51.41	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 10% DDT Dust			
DDT .....	10.00	10.45	Passed
Security Brand DDT Concentrate Emulsifiable Spray			
DDT .....	23.50	24.19	Passed
Security Brand 50% DDT Wettable			
DDT .....	50.00	50.34	Passed
<b>DDT-ALLETHRIN-LETHANE 384</b>			
<b>Colonial Stores, Inc.</b>			
<b>(Registered by Stalfort Pressure-Pak, Inc.)</b>			
3D Insecticide Aerosol Spray			
DDT .....	2.00	2.25	Passed
Allethrin .....	0.125	Present	
Lethane 384 .....	1.00	Present	
DDT .....	2.00	2.15	Passed
Allethrin .....	0.125	Present	
Lethane 384 .....	1.00	Present	
<b>DDT—ALLETHRIN—LETHANE 384—N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE</b>			
<b>Airosol Company, Inc.</b>			
Jet Insect Killer			
DDT .....	2.00	2.05	Passed
Allethrin .....	0.10	Present	
Lethane 384 .....	1.50		
N-octyl bicycloheptene dicarboximide .....	0.25		
Theoretical nitrogen .....	0.12	0.13	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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## Jet Insect Killer (Continued)

DDT	2.00	2.06	Passed
Allethrin	0.10	Present	
Lethane 384	1.50		
N-octyl bicycloheptene dicarboximide	0.25		Passed
Theoretical nitrogen	0.12	0.17	
DDT	2.00	2.26	
Allethrin	0.10	Present	Passed
Lethane 384	1.50		
N-octyl bicycloheptene dicarboximide	0.25		
Theoretical nitrogen	0.12	0.19	

## C-B Drug Co.

## C-B Fly and Mosquito Aerosol Killer

DDT	2.00	1.73	Deficient
Allethrin	0.10	Present	
Lethane 384	1.06		
N-octyl bicycloheptene dicarboximide	0.75		
Theoretical nitrogen	0.113	0.118	

DDT-ALLETHRIN-METHOXYCHLOR-  
PIPERONYL BUTOXIDE

## Boyle-Midway, Inc.

## Black Flag Insect Bomb

DDT	1.00		Passed
Allethrin	0.22	Present	
Methoxychlor	1.00		
Piperonyl butoxide	0.25	0.21	Passed
Theoretical chlorine	0.80	0.86	
DDT	1.00		
Allethrin	0.22	Present	Passed
Methoxychlor	1.00		
Piperonyl butoxide	0.25	0.23	
Theoretical chlorine	0.80	0.90	

## DDT-CAPTAN-KARATHANE-MALATHION

## Acme Quality Paints, Inc.

## Acme Rose Dust

DDT	5.00		Deficient
Captan	7.00		
Karathane	0.675		
Malathion	4.00	2.78	
Theoretical nitrogen	0.38	0.48	
Theoretical chlorine	4.98	5.43	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Acme Rose Dust (Continued)			
DDT .....	5.00		Passed
Captan .....	7.00		
Karathane .....	0.675		
Malathion .....	4.00	4.21	
Theoretical nitrogen .....	0.38	0.48	
Theoretical chlorine .....	4.98	5.25	

**DDT-CAPTAN-MALATHION****Sears, Roebuck and Co.****Cross Country Rose Spray**

DDT .....	10.00		Passed
Captan .....	5.00		
Malathion .....	5.00	4.80	
Theoretical chlorine .....	6.77	8.10	

**Cross Country Rose Dust**

DDT .....	5.00		Passed
Captan .....	5.00		
Malathion .....	4.00	4.35	
Theoretical chlorine .....	4.27	4.92	
DDT .....	5.00		Deficient
Captan .....	5.00		
Malathion .....	4.00	3.11	
Theoretical chlorine .....	4.27	4.44	
DDT .....	5.00		Excessive
Captan .....	5.00		Active
Malathion .....	4.00	4.05	Ingredient
Theoretical chlorine .....	4.27	8.68	

**DDT-CHLORDANE****Graham Chemical Co.****Bug-Death Roach Powder 6% DDT 4% Chlordane**

DDT .....	6.00		Passed
Chlordane .....	4.00		
Theoretical chlorine .....	5.56	5.39	

**DDT-COPPER****Farmers Cooperative Exchange, Inc.****FCX 7-5 Potato and Tomato Dust**

DDT .....	5.00	5.00	Passed
Copper as metallic .....	7.00	6.96	
DDT .....	5.00	4.86	Passed
Copper as metallic .....	7.00	7.04	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**Mike, Inc.****101 Brand Potato Dust**

DDT .....	5.00	4.64	Deficient
Copper as metallic .....	6.50	6.67	

**Southern Agricultural Insecticides, Inc.****SA-50 Brand Potato Dust with 5% DDT**

DDT .....	5.00	5.89	Passed
Copper as metallic .....	6.50	6.41	
DDT .....	5.00	5.18	Passed
Copper as metallic .....	6.50	6.21	
DDT .....	5.00	6.07	Passed
Copper as metallic .....	6.50	6.22	

**DDT-COPPER-PARATHION-SULFUR****Southern Agricultural Insecticides, Inc.****SA-50 Brand 1½ % Parathion Dust**

DDT .....	5.00	4.93	Passed
Copper as metallic .....	3.00	3.06	
Parathion .....	1.50	1.62	
Sulfur .....	25.00	26.56	

**DDT-DDD-PARATHION****Cape Fear Chemicals, Inc.****Tiger Brand Thrippl Quick 1-5-5 Tobacco Dust**

DDT .....	5.00	Passed
DDD .....	5.00	
Parathion .....	1.00	
Theoretical chlorine .....	4.72	

**Maxwell Insecticide Company, Inc.****Maxwell 5-5-1 Tobacco Dust**

DDT .....	5.00	Passed
DDD .....	5.00	
Parathion .....	1.00	
Theoretical chlorine .....	4.72	
DDT .....	5.00	Passed
DDD .....	5.00	
Parathion .....	1.00	
Theoretical chlorine .....	4.72	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**W. R. Peele Company, Inc.****Pelco 5-5-1 Tobacco Dust DDT-TDE-Parathion**

DDT	5.00		Deficient
DDD	5.00		
Parathion	1.00	0.87	
Theoretical chlorine	4.72	4.57	
DDT	5.00		Passed
DDD	5.00		
Parathion	1.00	1.00	
Theoretical chlorine	4.72	4.51	
DDT	5.00		Passed
DDD	5.00		
Parathion	1.00	0.98	
Theoretical chlorine	4.72	4.57	

**DDT-ENDRIN****California Chemical Company-Ortho Div.****Ortho Endrin-DDT-1-1 Emulsive**

DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine	12.91	13.02	
DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine	12.91	13.31	
DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine	12.91	13.56	

**Cape Fear Chemicals, Inc.****Tiger Brand Tobacco Spray**

DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	12.55	

**Carolina Chemical Corp.****Tobacco Special**

DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	11.59	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	13.65	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine	11.88	11.62	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Tobacco Special (Continued)</b>			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	11.33	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.30	
<b>Carter Insecticide and Chemical Company, Inc.</b>			
<b>Carolina Brand En-D Tobacco Poison</b>			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.27	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.26	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.03	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.13	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.65	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.17	
<b>Coastal Chemical Corp.</b>			
<b>Worm and Beetle Spray Emulsible Concentrate</b>			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.12	
<b>Daly-Herring Co.</b>			
<b>Bacco Beetle Spray Emulsifiable Concentrate</b>			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	13.52	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.30	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.83	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Tobacco Special			
DDT .....	5.00		Passed
Endrin .....	1.50		
Theoretical chlorine .....	3.34	3.55	
<b>Graham Chemical Company, Inc.</b>			
Graham's Red Star End-DT			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.15	
<b>GurMiCo Chemicals, Inc.</b>			
GurMiCo Liquid Tobacco Control			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	13.81	
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell Tobacco Spray No. 2 Emulsifiable Concentrate			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.85	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.98	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.10	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	11.89	
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson End-DT Emulsifiable			
DDT .....	12.10		Passed
Endrin .....	12.10		
Theoretical chlorine .....	12.81	14.00	
DDT .....	12.10		Passed
Endrin .....	12.10		
Theoretical chlorine .....	12.81	13.38	
DDT .....	12.10		Passed
Endrin .....	12.10		
Theoretical chlorine .....	12.81	12.83	
DDT .....	12.10		Passed
Endrin .....	12.10		
Theoretical chlorine .....	12.81	12.98	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 55 Tobacco Spray Emulsifiable Concentrate</b>			
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.18	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	11.98	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.16	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	12.04	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	11.94	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	11.68	
DDT .....	16.50		Passed
Endrin .....	6.50		
Theoretical chlorine .....	11.88	11.95	
<b>Pelco Endrin and DDT Emulsion</b>			
DDT .....	11.99		Passed
Endrin .....	12.20		
Theoretical chlorine .....	12.81	12.65	
DDT .....	11.99		Passed
Endrin .....	12.20		
Theoretical chlorine .....	12.81	12.37	
DDT .....	11.99		Passed
Endrin .....	12.20		
Theoretical chlorine .....	12.81	13.13	
<b>Planters Chemical Corp.</b>			
<b>Planters Endrin-DDT Emulsible Concentrate</b>			
DDT .....	12.20		Passed
Endrin .....	11.90		
Theoretical chlorine .....	12.25	12.21	
DDT .....	12.20		Passed
Endrin .....	11.90		
Theoretical chlorine .....	12.25	12.45	
DDT .....	12.20		Passed
Endrin .....	11.90		
Theoretical chlorine .....	12.25	12.28	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Chemicals, Inc.</b>			
Royal Brand Endrin-DDT Emulsible Concentrate			
DDT .....	18.30		Not Registered
Endrin .....	5.90		
Theoretical chlorine .....	12.45	12.72	
<b>Taylor Chemical Co.</b>			
Superkill Endrin-DDT 1-1 Emulsive			
DDT .....	12.20		Passed
Endrin .....	12.20		
Theoretical chlorine .....	12.91	13.31	
DDT .....	12.20		Passed
Endrin .....	12.20		
Theoretical chlorine .....	12.91	13.30	
<b>United Cooperatives, Inc.</b>			
<b>(Registered by Farmers Cooperative Exchange, Inc.)</b>			
Unico "513" Tobacco and Cotton Spray			
DDT .....	15.80		Passed
Endrin .....	6.40		
Theoretical chlorine .....	11.47	11.91	
DDT .....	15.80		Passed
Endrin .....	6.40		
Theoretical chlorine .....	11.47	11.99	
DDT .....	15.80		Passed
Endrin .....	6.40		
Theoretical chlorine .....	11.47	11.85	
DDT .....	15.80		Passed
Endrin .....	6.40		
Theoretical chlorine .....	11.47	13.96	
DDT .....	15.80		Passed
Endrin .....	6.40		
Theoretical chlorine .....	11.47	12.15	
<b>DDT-FERBAM</b>			
<b>California Chemical Company-Ortho Div.</b>			
Ortho Ferbam-DDT 11.4-5 Dust			
DDT .....	5.00	4.93	Passed
Ferbam .....	11.40	11.26	
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 15% Fermate-5% DDT Dust			
DDT .....	5.00	5.14	Passed
Ferbam .....	11.40	11.15	
DDT .....	5.00	4.93	Passed
Ferbam .....	11.40	11.95	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Niagara Chemical Div. Food Machinery and Chemical Corp.</b>			
Niagara Ferbam 11.4 DDT 5 Dust			
DDT .....	5.00	5.39	Passed
Ferbam .....	11.40	11.33	
<b>DDT-FERBAM-MALATHION- PYRETHRINS-SULFUR</b>			
<b>O. M. Scott and Sons Co.</b>			
Scotts Haze			
DDT .....	5.00	5.57	Deficient
Ferbam .....	7.50	6.80	
Malathion .....	4.50	3.02	
Pyrethrins .....	0.02	0.09	
Sulfur .....	28.00	27.48	
<b>DDT-FERBAM-SULFUR</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Rose Dust			
DDT .....	5.00	4.86	Deficient
Ferbam .....	7.60	7.18	
Sulfur .....	75.00	69.01	
DDT .....	5.00	5.00	Deficient
Ferbam .....	7.60	6.77	
Sulfur .....	75.00	73.31	
<b>DDT-KARATHANE-MALATHION</b>			
<b>Sears, Roebuck and Co.</b>			
Cross Country Liquid Spray for Roses			
DDT .....	21.25	22.17	Passed
Karathane .....	4.00	4.02	
Malathion .....	26.75	28.66	
<b>DDT-LETHANE 384</b>			
<b>Boyle-Midway, Inc.</b>			
Black Flag Insect Spray			
DDT .....	5.00	5.44	Passed
Lethane 384 .....	1.00	Present	
DDT .....	5.00	5.43	Passed
Lethane 384 .....	1.00	Present	
DDT .....	5.00	5.28	Passed
Lethane 384 .....	1.00	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT-MALATHION			
Rigo Manufacturing Co.			
Kill-Ko Pecan and Fruit Tree Spray Concentrate			
DDT .....	11.30	12.23	Passed
Malathion .....	14.50	14.78	
DDT .....	11.30	13.71	Passed
Malathion .....	14.50	13.86	
Sears, Roebuck and Co.			
Cross Country Pecan and Fruit Tree Spray Concentrate			
DDT .....	11.50	12.62	Passed
Malathion .....	14.50	15.05	
DDT-MALATHION-PYRETHRINS			
O. M. Scott and Sons Co.			
Scotts Mosquito and Fly Control Boon			
DDT .....	5.00	5.36	Defisient
Malathion .....	4.50	4.14	
Pyrethrins .....	0.10	0.14	
DDT-METHOXYCHLOR-PIPERONYL BUTOXIDE-PYRETHRINS-ROTENONE			
Boyle-Midway, Inc.			
Black Flag House and Garden Insect Killer			
DDT .....	1.00		Passed
Methoxychlor .....	1.00		
Piperonyl butoxide .....	0.25	0.23	
Pyrethrins .....	0.20	0.24	
Rotenone .....	0.10	Present	
Theoretical chlorine .....	0.80	0.96	
DDT .....	1.00		Passed
Methoxychlor .....	1.00		
Piperonyl butoxide .....	0.25	0.19	
Pyrethrins .....	0.20	0.24	
Rotenone .....	0.10	Present	
Theoretical chlorine .....	0.80	1.01	
DDT .....	1.00		Passed
Methoxychlor .....	1.00		
Piperonyl butoxide .....	0.25	0.22	
Pyrethrins .....	0.20	0.20	
Rotenone .....	0.10	Present	
Theoretical chlorine .....	0.80	0.86	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
New Black Flag Patio and Picnic Spray			
DDT .....	1.00		Passed
Methoxychlor .....	1.00		
Piperonyl butoxide .....	0.25	0.30	
Pyrethrins .....	0.20	0.38	
Rotenone .....	0.10	Present	
Theoretical chlorine .....	0.80	1.01	
DDT-METHYL PARATHION			
Atlas Agricultural Chemicals, Inc.			
Atlas 2.5-10 Methyl-DDT			
DDT .....	10.00	11.14	Passed
Methyl parathion .....	2.50	2.42	
California Chemical Company-Ortho Div.			
Ortho Methyl Parathion-DDT 2.5-10 Dust			
DDT .....	10.00	9.72	Passed
Methyl parathion .....	2.50	2.46	
Carolina Chemicals, Inc.			
Flight Brand Methyl Parathion DDT Dust 2½-7-0			
DDT .....	7.00	7.95	Passed
Methyl parathion .....	2.50	2.40	
Flight Brand Methyl Parathion DDT Dust 2½-10-0			
DDT .....	10.00	9.93	Passed
Methyl parathion .....	2.50	2.51	
Taylor Chemical Co.			
Superkill 2½ P-10 Dust			
DDT .....	10.00	10.22	Deficient
Methyl parathion .....	2.50	1.91	
DDT .....	10.00	10.21	Passed
Methyl parathion .....	2.50	2.75	
Woolfolk Chemical Works, Ltd.			
Security Brand 2½ % Methyl Parathion 5% DDT Cotton Dust			
DDT .....	5.00	4.79	Passed
Methyl parathion .....	2.50	2.54	
Security Brand 2½ % Methyl Parathion 10% DDT Cotton Dust			
DDT .....	10.00	9.86	Passed
Methyl parathion .....	2.50	2.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>DDT-METHYL TRITHION</b>			
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Super X Super Cotton Dust			
DDT .....	7.00		Passed
Methyl trithion .....	3.00		
Theoretical chlorine .....	3.84	3.97	
<b>Stauffer Chemical Co.</b>			
DDT-Methyl Trithion 5-3 Dust			
DDT .....	5.00		Passed
Methyl trithion .....	3.00		
Theoretical chlorine .....	2.84	3.07	
DDT .....	5.00		Passed
Methyl trithion .....	3.00		
Theoretical chlorine .....	2.84	2.93	
DDT-Methyl Trithion 10-3 Dust			
DDT .....	10.00		Passed
Methyl trithion .....	3.00		
Theoretical chlorine .....	5.34	6.00	
DDT-Methyl Trithion 2-2 E			
DDT .....	22.10		Passed
Methyl trithion .....	22.10		
Theoretical chlorine .....	13.53	13.42	
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson DDT-Methyl Trithion Emulsifiable Liquid			
DDT .....	22.10		Passed
Methyl trithion .....	22.10		
Theoretical chlorine .....	13.53	13.90	
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Tri-Me 2½-7 Cotton Dust			
DDT .....	7.00		Passed
Methyl trithion .....	2.50		
Theoretical chlorine .....	3.78	4.08	
Security Brand Tri-Me 2½-10 Cotton Dust			
DDT .....	10.00		Passed
Methyl trithion .....	2.50		
Theoretical chlorine .....	5.28	5.54	
Security Brand Tri-Me Cotton Spray 2-2			
DDT .....	22.30		Passed
Methyl trithion .....	22.30		
Theoretical chlorine .....	13.65	14.89	
DDT .....	22.30		Passed
Methyl trithion .....	22.30		
Theoretical chlorine .....	13.65	14.01	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT-PARATHION-SULFUR			
California Chemical Company-Ortho Div.			
Ortho DDT-Parathion-Sulfur 5-1.5-25 Dust			
DDT .....	5.00	5.21	Passed
Parathion .....	1.50	1.76	
Sulfur .....	25.00	24.91	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 1½ % Parathion Dust with 5% DDT			
DDT .....	5.00	5.28	Passed
Parathion .....	1.50	1.50	
Sulfur .....	25.00	26.11	
DDT .....	5.00	5.29	Passed
Parathion .....	1.50	1.52	
Sulfur .....	25.00	27.02	
DDT .....	5.00	5.25	Passed
Parathion .....	1.50	1.63	
Sulfur .....	25.00	25.23	
DDT .....	5.00	5.46	Passed
Parathion .....	1.50	1.57	
Sulfur .....	25.00	26.84	
DDT .....	5.00	5.22	Passed
Parathion .....	1.50	1.60	
Sulfur .....	25.00	26.47	
DDT .....	5.00	5.25	Passed
Parathion .....	1.50	1.65	
Sulfur .....	25.00	25.97	
DDT .....	5.00	4.96	Passed
Parathion .....	1.50	1.50	
Sulfur .....	25.00	25.41	
DDT .....	5.00	5.32	Passed
Parathion .....	1.50	1.61	
Sulfur .....	25.00	27.11	
DDT .....	5.00	4.93	Passed
Parathion .....	1.50	1.78	
Sulfur .....	25.00	24.83	
DDT .....	5.00	4.86	Passed
Parathion .....	1.50	1.44	
Sulfur .....	25.00	24.77	
DDT .....	5.00	5.07	Passed
Parathion .....	1.50	1.47	
Sulfur .....	25.00	26.03	
DDT .....	5.00	6.42	Passed
Parathion .....	1.50	1.51	
Sulfur .....	25.00	26.91	
DDT .....	5.00	5.29	Passed
Parathion .....	1.50	1.85	
Sulfur .....	25.00	24.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand 1 1/2 % Parathion Dust with 5% DDT (Continued)			
DDT .....	5.00	5.29	Passed
Parathion .....	1.50	1.61	
Sulfur .....	25.00	25.82	
DDT .....	5.00	5.25	Passed
Parathion .....	1.50	1.63	
Sulfur .....	25.00	27.54	
DDT-PIPERONYL BUTOXIDE-PYRETHRINS			
A-Penn Oil Co.			
Kilzum Aerosol Insect Spray			
DDT .....	2.00	2.02	Passed
Piperonyl butoxide .....	0.50	0.54	
Pyrethrins .....	0.20	0.22	
DDT .....	2.00	2.10	Passed
Piperonyl butoxide .....	0.50	0.44	
Pyrethrins .....	0.20	0.20	
Rigo Manufacturing Co.			
Kill-Ko Super Strength Plus 5% DDT			
DDT .....	5.00	4.99	Passed
Piperonyl butoxide .....	0.30	0.26	
Pyrethrins .....	0.03	0.058	
DDT-PYRETHRINS			
GurMiCo Chemicals, Inc.			
GurMiCo Spray Insecticidal Space Spray			
DDT .....	3.75	4.78	Passed
Pyrethrins .....	0.02	0.04	
DDT-ZINEB			
Farmers Cooperative Exchange, Inc.			
FCX 6.5% Zineb-5% DDT Dust			
DDT .....	5.00	4.86	Deficient
Zineb .....	6.50	6.12	
Niagara Chemical Div. Food Machinery and Chemical Corp.			
Niagara Zineb 6.5 Niatox 5 Dust			
DDT .....	5.00	5.32	Deficient
Zineb .....	6.50	5.91	
DDVP			
Agricultural Specialties Star-Bar Div.			
Starbar Strike Instant Fly Syrup			
DDVP .....	0.20	0.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Rigo Manufacturing Co.</b>			
Kill-Ko Fly and Mosquito Spray with DDVP			
DDVP .....	0.50	1.31	Excessive Active Ingredient
<b>United Cooperatives, Inc.</b>			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unico DDVP Stock Spray			
DDVP .....	1.00	1.49	Passed
<b>DDVP-CHLOROTHION-PERTHANE</b>			
<b>Agricultural Specialties</b>			
<b>Star Bar Div.</b>			
Starbar Malrin 576 Sugar Bait			
DDVP .....	0.20		Passed
Chlorothion .....	1.00		
Perthane .....	2.00		
Theoretical chlorine .....	0.74	0.70	
<b>DDVP-MALATHION</b>			
<b>Rigo Manufacturing Co.</b>			
Kill-Ko Fly Bait			
DDVP .....	0.50		Passed
Malathion .....	1.00		
Theoretical phosphorus .....	0.16	0.16	
<b>DIELDRIN</b>			
<b>Atlas Agricultural Chemicals, Inc.</b>			
Atlas 2% Dieldrin Dust			
Dieldrin .....	2.00	3.13	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand Lawn-Diel 2½ % Dieldrin Granules			
Dieldrin .....	2.50	2.58	Passed
do .....	2.50	2.62	Passed
SA-50 Brand 10% Dieldrin Granules			
Dieldrin .....	10.00	10.57	Passed
<b>United Cooperatives, Inc.</b>			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unico 5% Dieldrin Granular			
Dieldrin .....	5.00	5.85	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**DIELDRIN-DDVP****Boyle-Midway, Inc.**

New Black Flag Ant and Roach Killer with New DDVP

Dieldrin	0.30		Passed
DDVP	0.20		
Theoretical chlorine	0.23	0.23	

**DIELDRIN-METALDEHYDE****California Chemical Company-Ortho Div.**

Ortho de luxe Bug-Geta Pellets

Dieldrin	0.50	0.58	Excessive
Metaldehyde	2.75	4.17	Active Ingredient

**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

Ortho de luxe Bug-Geta Pellets

Dieldrin	1.00	1.40	Excessive
Metaldehyde	2.75	4.27	Active Ingredient

Dieldrin	1.00	1.30	Passed
Metaldehyde	2.75	3.77	

**DIELDRIN-SULFUR****Taylor Chemical Co.**

Superkill Dieldrin-Sulfur Peach Spray

Dieldrin	3.85	4.33	Passed
Sulfur	86.76	84.33	

**DIELDRIN-ZINEB****W. R. Grace and Co.****Davison Chemical Div.**

Naco 8% Dithane and 1½% Dieldrin

Dieldrin	1.50	1.44	Passed
Zineb	6.00	5.87	

**DIBROM****California Chemical Company-Ortho Div.**

Ortho Dibrom 4 Dust

Dibrom	4.00	4.71	Passed
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Ortho Fly Killer D

Dibrom	41.00	40.93	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>California Spray-Chemical Corp.</b>			
<b>(Now: California Chemical Company-Ortho Div.)</b>			
Ortho Dibrom 4 Dust			
Dibrom .....	4.00	4.24	Passed
<b>DIPTEREX</b>			
<b>Hess and Clark</b>			
<b>Division of Richardson-Merrell, Inc.</b>			
Hess and Clark Fatal-Fly			
Dipterex .....	1.00	1.30	Passed
do .....	1.00	1.09	Passed
do .....	1.00	1.17	Passed
do .....	1.00	1.25	Passed
<b>DINITRO ORTHO CRESOL</b>			
<b>Corona Chemical Div.</b>			
<b>Pittsburgh Plate Glass Co.</b>			
Corona Dinitro Powder CM-76			
Dinitro ortho cresol .....	40.00	38.00	Passed
<b>Niagara Chemical Div.</b>			
<b>Food Machinery and Chemical Corp.</b>			
Niagara Dinitro Dry (Wettable)			
Dinitro ortho cresol .....	40.00	38.43	Passed
<b>ENDRIN</b>			
<b>Acme Fertilizer Co.</b>			
Acme Endrin Emulsion			
Endrin .....	19.00	19.46	Passed
<b>California Chemical Company-Ortho Div.</b>			
Ortho Endrin 1.5 Dust			
Endrin .....	1.50	1.50	Passed
Ortho Endrin 1.6 Emulsive			
Endrin .....	18.60	19.66	Passed
do .....	18.60	21.50	Passed
<b>Carolina Chemical Corp.</b>			
Endrin Emulsible Concentrate			
Endrin .....	19.50	18.60	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand Endrin Emulsifiable Concentrate			
Endrin .....	19.50	19.31	Passed
do .....	19.50	19.97	Passed
do .....	19.50	19.73	Passed
do .....	19.50	19.81	Passed
<b>Coastal Chemical Corp.</b>			
Endrin Emulsible Concentrate			
Endrin .....	19.50	19.87	Passed
do .....	19.50	19.53	Passed
<b>Daly-Herring Co.</b>			
Dee Aitch Endrin Emulsible Concentrate			
Endrin .....	19.50	20.31	Passed
do .....	19.50	20.20	Passed
do .....	19.50	20.00	Passed
do .....	19.50	23.64	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Endrin Emulsifiable Concentrate			
Endrin .....	18.90	18.44	Passed
do .....	18.90	19.69	Passed
do .....	18.90	20.25	Passed
do .....	18.90	20.03	Passed
<b>Graham Chemical Company, Inc.</b>			
Graham's Red Star Endrin Emulsifiable Concentrate			
Endrin .....	19.50	19.11	Passed
<b>GurMiCo Chemicals, Inc.</b>			
GurMiCo Endrin Emulsion			
Endrin .....	18.50	21.13	Passed
do .....	18.50	20.10	Passed
Endrin Emulsion			
Endrin .....	19.50	20.94	Passed
do .....	19.50	21.47	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Endrin 1.6 lb. Emulsifiable			
Endrin .....	19.80	20.51	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco Endrin Emulsifiable Concentrate			
Endrin .....	19.50	19.76	Passed
do .....	19.50	19.17	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Pelco Endrin Emulsifiable Concentrate (Continued)</b>			
do .....	19.50	20.20	Passed
do .....	19.50	20.15	Passed
do .....	19.50	20.02	Passed
do .....	19.50	19.68	Passed
do .....	19.50	19.94	Passed
do .....	19.50	19.28	Passed
<b>Planters Chemical Corp.</b>			
<b>Planters Endrin Emulsible Concentrate</b>			
Endrin .....	19.50	19.19	Passed
do .....	19.50	19.26	Passed
do .....	19.50	19.14	Passed
do .....	19.50	19.05	Passed
do .....	19.50	19.20	Passed
do .....	19.50	19.93	Passed
do .....	19.50	19.75	Passed
do .....	19.50	19.54	Passed
<b>Quality Chemical Corp.</b>			
<b>(Now: Carolina Chemical Corp.)</b>			
<b>Endrin Emulsible Concentrate</b>			
Endrin .....	19.50	19.22	Passed
<b>Swift and Co.</b>			
<b>Agricultural Chemicals Div.</b>			
<b>Swift's Gold Bear Insecticide Dust E2</b>			
Endrin .....	2.00	2.40	Passed
<b>Swift's Gold Bear Endrin E 1.6E</b>			
Endrin .....	19.90	20.62	Passed
<b>Taylor Chemical Co.</b>			
<b>Superskill 2% Endrin Dust</b>			
Endrin .....	2.00	2.40	Passed
<b>Superskill Endrin Emulsifiable Concentrate</b>			
Endrin .....	19.50	20.17	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
<b>Security Brand Endri-Sol</b>			
Endrin .....	18.50	19.58	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**ENDRIN-PARATHION****Niagara Chemical Div.****Food Machinery and Chemical Corp.**

## Niagara Phoskil Endrin Miscible

Endrin .....	18.80	21.72	Deficient
Parathion .....	11.80	10.39	

**Southern Agricultural Insecticides, Inc.**

## SA-50 Brand Dust Containing 1½ % Endrin 1 % Parathion

Endrin .....	1.50	2.07	Passed
Parathion .....	1.00	1.84	

**ENDRIN-TRITHION****Swift & Co.****Agricultural Chemical Div.**

## Swift's Gold Bear Super Guard 152

Endrin .....	1.50	Passed
Trithion .....	2.00	
Theoretical chlorine .....	1.05	
		1.24

**FERBAM****Graham Chemical Company, Inc.**

## Graham's Red Star "Fermate Dust"

Ferbam .....	11.40	12.21	Passed
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**Olin Mathieson Chemical Corp.**

## Mathieson Ferbam Dust

Ferbam .....	11.40	11.99	Passed
do .....	11.40	11.83	Passed

**FERBAM-DICHLONE-SULFUR****Atlas Agricultural Chemical Co.**

## Atlas Apple Spray S.F.D.

Ferbam .....	9.50	9.15	Passed
Dichlone .....	3.00	3.53	
Sulfur .....	71.00	69.18	
Ferbam .....	9.50	9.48	Passed
Dichlone .....	3.00	3.26	
Sulfur .....	71.00	69.82	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Atlas Apple Spray S.F.D. (Continued)			
Ferbam .....	9.50	8.68	Deficient
Dichlone .....	3.00	2.25	
Sulfur .....	71.00	73.69	
Ferbam .....	9.50	8.88	Deficient
Dichlone .....	3.00	2.93	
Sulfur .....	71.00	71.76	
Ferbam .....	9.50	8.01	Deficient
Dichlone .....	3.00	3.97	
Sulfur .....	71.00	68.57	
Corona Chemical Div.			
Pittsburgh Plate Glass Co.			
Corona Micronized Phybam-S			
Ferbam .....	9.50	11.05	Deficient
Dichlone .....	3.00	2.70	
Sulfur .....	71.00	65.55	
Ferbam .....	9.50	8.49	Deficient
Dichlone .....	3.00	1.91	
Sulfur .....	71.00	71.00	
FERBAM-PARATHION			
Farmers Cooperative Exchange, Inc.			
FCX 11.4% Ferbam-1% Parathion Dust			
Ferbam .....	11.40	9.73	Deficient
Parathion .....	1.00	0.74	
FLUORINE COMPOUNDS			
SODIUM FLUORIDE			
Fairfax Biological Laboratory			
Roach Doom			
Sodium fluoride .....	90.00	91.50	Passed
Ralson Purina Co.			
Purina Lice Powder			
Sodium fluoride .....	35.00	37.58	Passed
SODIUM FLUORIDE-PIPERONYL BUTOXIDE-PYRETHRINS			
Rigo Manufacturing Co.			
Kill-Ko Roach Powder			
Sodium fluoride .....	58.00	55.14	Passed
Piperonyl butoxide .....	1.50	1.38	
Pyrethrins .....	0.15	0.20	
Sodium fluoride .....	58.00	55.34	Passed
Piperonyl butoxide .....	1.50	1.35	
Pyrethrins .....	0.15	0.198	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**SODIUM FLUORIDE-PYRETHRINS****Master Products Co.**

Roach Buster			
Sodium fluoride .....	76.00	76.19	Passed
Pyrethrins .....	0.10	0.12	
Sodium fluoride .....	76.00	72.76	Passed
Pyrethrins .....	0.10	0.10	
Sodium fluoride .....	76.00	59.59	Deficient
Pyrethrins .....	0.10	0.14	

**SODIUM FLUORIDE-SODIUM  
FLUOSILICATE-DDT****Nott Manufacturing Company, Inc.**

Notts Roach Powder			
Sodium fluoride .....	85.00		Not
Sodium fluosilicate .....	0.50		Registered
DDT .....	10.00	10.14	
Theoretical fluoride .....	38.75	40.25	

**SODIUM FLUOSILICATE-CHLORDANE****Shepards Chemical Works**

Shepard's Roach Killer			
Sodium fluosilicate .....	58.00	65.15	Deficient
Chlordane .....	2.00	0.87	

**SODIUM FLUOSILICATE-  
ROTENONE-SULFUR****Carbola Chemical Company, Inc.**

Carbola Louse Killer			
Sodium fluosilicate .....	10.00	9.83	Deficient
Rotenone .....	0.50	0.32	
Sulfur .....	15.00	15.00	

**FUMARIN****Farmers Cooperative Exchange, Inc.**

FCX Rat and Mouse Ready-to-Use Pellets			
Fumarin .....	0.025	0.027	Passed
do .....	0.025	0.022	Passed
do .....	0.025	0.023	Passed
do .....	0.025	0.018	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Rigo Manufacturing Co.</b>			
Kill-Ko Rat Bait			
Fumarin . . . . .	0.025	0.029	Passed
<b>HEPTACHLOR</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
Unico 2½ % Heptachlor Granular			
Heptachlor (Technical) . . . . .	3.47	4.03	Passed
do . . . . .	3.47	3.89	Passed
do . . . . .	3.47	5.02	Passed
do . . . . .	3.47	4.79	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Heptachlor 2½ % Granular			
Heptachlor (Technical) . . . . .	3.47	3.70	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 2½ % Heptachlor Granules			
Heptachlor (Technical) . . . . .	3.47	3.83	Passed
do . . . . .	3.47	3.66	Passed
do . . . . .	3.47	3.69	Passed
do . . . . .	3.47	3.89	Passed
do . . . . .	3.47	3.89	Passed
do . . . . .	3.47	3.89	Passed
do . . . . .	3.47	3.97	Passed
<b>Swift and Co.</b>			
<b>Agricultural Chemical Div.</b>			
Swift's Gold Bear Heptachlor A 2.5 G			
Heptachlor (Technical) . . . . .	3.47	3.94	Passed
Swift's Gold Bear Heptachlor A-2-E			
Heptachlor (Technical) . . . . .	30.90	30.74	Passed
<b>Taylor Chemical Co.</b>			
Superkill 2½ % Heptachlor (Granular)			
Heptachlor (Technical) . . . . .	3.47	4.21	Passed
<b>United Cooperatives, Inc.</b>			
<b>(Registered by Farmers Cooperative Exchange, Inc.)</b>			
Unico Heptachlor Transplanter Solution			
Heptachlor (Technical) . . . . .	32.30	33.91	Passed
do . . . . .	32.30	32.32	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 2½ % Heptachlor Granulated			
Heptachlor (Technical) . . . . .	3.47	3.50	Passed
do . . . . .	3.47	3.61	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>MALATHION</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme 50% Malathion Spray			
Malathion .....	50.00	55.78	Passed
do .....	50.00	56.32	Passed
<b>Allied Chemical Corp. General Chemical Div.</b>			
Orchard Brand 50% Malathion Emulsifiable Concentrate			
Malathion .....	50.00	50.58	Passed
<b>California Chemical Company-Ortho Div.</b>			
Ortho Malathion 5 Dust			
Malathion .....	5.00	4.80	Passed
Ortho Malathion 50 Spray			
Malathion .....	50.00	50.61	Passed
Ortho Malathion 5 Emulsive			
Malathion .....	55.00	54.12	Passed
<b>California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)</b>			
Ortho Grain Protectant			
Malathion .....	1.00	1.73	Excessive Active Ingredient
Ortho Malathion Garden Dust			
Malathion .....	5.00	5.66	Passed
Ortho Malathion 50 Spray			
Malathion .....	50.00	51.18	Passed
<b>Corona Chemical Div. Pittsburgh Plate Glass Co.</b>			
Corona Malathion CM-285-25% Wettable Powder			
Malathion .....	25.00	24.92	Passed
<b>Daly-Herring Co.</b>			
Dee Aitch 4% Malathion Dust			
Malathion .....	4.00	3.88	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 4% Malathion Dust			
Malathion .....	4.00	3.59	Deficient
do .....	4.00	3.82	Passed
do .....	4.00	3.88	Passed
do .....	4.00	4.35	Passed
do .....	4.00	3.81	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>FCX 5% Malathion Dust</b>			
Malathion .....	5.00	4.75	Passed
<b>FCX Cattle and Poultry Dust</b>			
Malathion .....	5.00	2.71	Deficient
<b>FCX Malathion Emulsifiable Concentrate</b>			
Malathion .....	55.20	56.63	Passed
do .....	55.20	57.12	Passed
do .....	55.20	55.34	Passed
<b>Florida Agricultural Supply Co.</b>			
<b>Fasco Fly Flakes</b>			
Malathion .....	1.00	1.03	Passed
<b>GurMiCo Chemicals, Inc.</b>			
<b>GurMiCo 4% Malathion Dust</b>			
Malathion .....	4.00	3.94	Passed
do .....	4.00	3.53	Deficient
			Misbranded
<b>Hopkins Agricultural Chemical Co.</b>			
<b>Hopkins Malathion Dust</b>			
Malathion .....	4.00	3.15	Deficient
			Not
			Registered
<b>Maxwell Insecticide Company, Inc.</b>			
<b>Maxwell 4% Malathion Dust</b>			
Malathion .....	4.00	3.92	Passed
do .....	4.00	3.87	Passed
do .....	4.00	3.91	Passed
do .....	4.00	3.43	Deficient
do .....	4.00	3.62	Deficient
do .....	4.00	3.75	Deficient
do .....	4.00	3.67	Deficient
<b>Maxwell Malathion 55% Emulsion</b>			
Malathion .....	55.00	57.06	Passed
<b>Olin Mathieson Chemical Corp.</b>			
<b>Mathieson Malathion 4% Dust</b>			
Malathion .....	4.00	3.14	Deficient
<b>Mathieson Malathion 5 lb. Emulsifiable Liquid</b>			
Malathion .....	57.00	57.17	Passed
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 4% Malathion Dust</b>			
Malathion .....	4.00	3.33	Deficient
<b>Pelco Malathion Emulsion E-5</b>			
Malathion .....	55.00	56.66	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Ralston Purina Co.</b>			
Purina Malathion Spray			
Malathion .....	57.00	55.42	Passed
do .....	57.00	58.55	Passed
<b>Rigo Manufacturing Co.</b>			
Kill-Ko Flea Powder			
Malathion .....	4.00	3.54	Deficient
Kill-Ko Malathion 5% Dust			
Malathion .....	5.00	4.31	Deficient
Kill-Ko Malathion 50% Emulsifiable Concentrate			
Malathion .....	50.00	50.22	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 4% Malathion Dust			
Malathion .....	4.00	4.22	Passed
do .....	4.00	3.87	Passed
do .....	4.00	3.95	Passed
SA-50 Brand 5% Malathion Dust			
Malathion .....	5.00	5.15	Passed
do .....	5.00	5.39	Passed
<b>Swift and Co. Agricultural Chemical Div.</b>			
Swift's Gold Bear Malathion-G5E			
Malathion .....	55.00	51.88	Deficient
<b>Taylor Chemical Co.</b>			
Superkill 5% Malathion Dust			
Malathion .....	5.00	4.73	Deficient
Superkill 50% Malathion Spray			
Malathion .....	50.00	51.49	Passed
<b>United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)</b>			
Unico Malathion Spray Powder			
Malathion .....	25.00	24.45	Passed
do .....	25.00	23.95	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 5% Malathion Dust			
Malathion .....	5.00	5.05	Passed
do .....	5.00	5.27	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**MALATHION-CAPTAN-METHOXYCHLOR****Acme Quality Paints, Inc.****Acme Fruit Tree Spray**

Malathion	6.00	7.26	Passed
Captan	12.00		
Methoxychlor	12.00		
Theoretical chlorine	7.90	8.38	

**California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)****Ortho Home Orchard Spray**

Malathion	7.50	8.10	Passed
Captan	15.00		
Methoxychlor	15.00		
Theoretical chlorine	9.87	10.33	

**Ortho Dog Powder**

Malathion	2.00	2.13	Passed
Captan	5.00		
Methoxychlor	2.00		
Theoretical chlorine	2.38	2.41	

**MALATHION-CAPTAN-SULFUR****Union Carbide Consumer Products Co.****Division of Union Carbide Corp.****Eveready Rose Dust**

Malathion	5.00	4.10	Deficient
Captan	7.50	6.38	
Sulfur	15.00	15.10	

**MALATHION-DIETHYL-PIPERONYL  
BUTOXIDE-PYRETHRINS****Boyle-Midway, Inc.****Black Flag Guaranteed Bug Killer**

Malathion	1.00	1.07	Passed
Diethyl	0.30	0.37	
Piperonyl butoxide	0.10	0.114	
Pyrethrins	0.04	0.047	

**California Chemical Company-Ortho Div.****Ortho Ant and Roach Bomb**

Malathion	2.00	2.02	Passed
Diethyl	0.30	0.30	
Piperonyl butoxide	0.12	0.150	
Pyrethrins	0.05	0.062	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>California Spray-Chemical Corp.</b>			
<b>(Now: California Chemical Company-Ortho Div.)</b>			
<b>Ortho Ant and Roach Bomb</b>			
Malathion .....	2.00	1.70	Deficient
Dieldrin .....	0.30	0.31	
Piperonyl butoxide .....	0.12	0.11	
Pyrethrins .....	0.05	0.08	
Malathion .....	2.00	1.92	Passed
Dieldrin .....	0.30	0.36	
Piperonyl butoxide .....	0.12	0.17	
Pyrethrins .....	0.15	0.08	
<b>MALATHION-ENDRIN</b>			
<b>Swift and Co.</b>			
<b>Agricultural Chemical Div.</b>			
<b>Super Guard 258E</b>			
Malathion .....	28.40	29.88	Passed
Endrin .....	9.10	9.80	
<b>MALATHION-METHOXYCHLOR</b>			
<b>Agricultural Specialties</b>			
<b>M and M Dairy Cattle Dust</b>			
Malathion .....	4.00	4.41	Passed
Methoxychlor .....	5.00	4.89	
<b>Farmers Cooperative Exchange, Inc.</b>			
<b>FCX Bean Dust</b>			
Malathion .....	3.00	2.86	Passed
Methoxychlor .....	3.00	3.22	
<b>United Cooperatives, Inc.</b>			
<b>(Registered by Farmers Cooperative Exchange, Inc.)</b>			
<b>Unico 1* Estate Insecticide</b>			
Malathion .....	16.00	10.02	Deficient
Methoxychlor .....	16.00	17.61	
<b>MALATHION-METHOXYCHLOR-SULFUR-ZINEB</b>			
<b>Sears, Roebuck and Co.</b>			
<b>Cross Country Three Way Garden Dust</b>			
Malathion .....	4.00	2.87	Deficient
Methoxychlor .....	5.00	4.60	
Sulfur .....	5.00	6.07	Registered
Zineb .....	5.00	5.78	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**MALATHION-PHENOLS****Carbola Chemical Company, Inc.****Carbola, The Disinfecting White Paint**

Malathion	1.00	0.53	Passed
Phenols	1.60	Present	

**MALATHION-PINE OIL-ROTENONE****Ralston Purina Co.****Purina Back Scratch**

Malathion	28.50	29.37	Passed
Pine oil	8.50	Present	
Rotenone	0.71	Present	

**MALATHION-PIPERONYL  
BUTOXIDE-PYRETHRINS****Rigo Manufacturing Co.****Kill-Ko Quick Kill Insect Bomb**

Malathion	2.00	2.39	Passed
Piperonyl butoxide	0.125	0.12	
Pyrethrins	0.05	0.08	

**MALATHION-PIPERONYL BUTOXIDE-PYRETHRINS-  
STROBANE-THANITE****California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)****Ortho Household Insect Bomb**

Malathion	1.00	1.21	Passed
Piperonyl butoxide	0.20	0.13	
Pyrethrins	0.025	0.06	
Strobane	1.00	1.28	
Thanite	1.00	Present	
Malathion	1.00	0.67	Passed
Piperonyl butoxide	0.20	0.13	
Pyrethrins	0.025	0.05	
Strobane	1.00	1.20	
Thanite	1.00	Present	

**MALATHION-SULFUR****Farmers Cooperative Exchange, Inc.****FCX Special Custom Blend 4% Malathion Dust Plus Sulfur Dust**

Malathion	4.00	4.79	Passed
Sulfur	25.00	24.80	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 4% Malathion Dust with 25% Sulfur			
Malathion .....	4.00	3.64	Deficient
Sulfur .....	25.00	26.30	
Malathion .....	4.00	3.82	Passed
Sulfur .....	25.00	27.47	
SA-50 Brand 4% Malathion-70% Sulfur-1% Manganese Pole Bean Dust			
Malathion .....	4.00	4.35	Passed
Sulfur .....	70.00	73.49	
<b>MANEB</b>			
<b>E. I. du Pont de Nemours and Co.</b>			
Du Pont Manzate			
Maneb .....	80.00	81.27	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand Manzate Dust			
Maneb .....	5.60	5.66	Passed
do .....	5.60	5.99	Passed
do .....	5.60	5.77	Passed
do .....	5.60	5.76	Passed
do .....	5.60	5.72	Passed
do .....	5.60	5.71	Passed
do .....	5.60	6.19	Passed
do .....	5.60	6.12	Passed
<b>MANEB-PARATHION</b>			
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 1.4% Maneb 1% Parathion			
Maneb .....	1.40	1.04	Deficient
Parathion .....	1.00	0.88	
<b>METHOXYCHLOR</b>			
<b>E. I. du Pont de Nemours and Co.</b>			
Du Pont Dairy Cattle Insecticide			
Methoxychlor .....	50.00	51.43	Passed
do .....	50.00	52.50	Passed
Du Pont 50% Technical Methoxychlor Insecticide			
Methoxychlor .....	50.00	51.78	Passed
<b>Geigy Agricultural Chemicals</b>			
Geigy Methoxychlor "50"			
Methoxychlor .....	50.00	50.35	Passed
Geigy Methoxychlor "50" 50% Wettable Powder			
Methoxychlor .....	50.00	47.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Ralston Purina Co.</b>			
Purina Dairy Cattle Dust			
Methoxychlor .....	10.00	10.50	Passed
do .....	10.00	10.29	Passed
<b>Rigo Manufacturing Co.</b>			
Kill-Ko Methoxychlor Dairy Kattle Dust			
Methoxychlor .....	10.00	11.07	Passed
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 10% Marlate Dust			
Methoxychlor .....	5.00	5.14	Passed
<b>METHOXYCHLOR-ALLETHRIN-THANITE</b>			
<b>Shulton, Inc.</b>			
Bridgeport Bug Bomb			
Methoxychlor .....	1.26	1.59	Passed
Allethrin .....	0.113	Present	
Thanite .....	1.00	Present	
<b>METHOXYCHLOR-CAPTAN-SEVIN</b>			
<b>Rigo Manufacturing Co.</b>			
Kill-Ko 3 in 1 Garden Dust			
Methoxychlor .....	5.00		Passed
Captan .....	4.00		
Sevin .....	1.75	2.18	
Theoretical chlorine .....	2.94	2.88	
<b>METHOXYCHLOR-CAPTAN-ROTENONE-SULFUR</b>			
<b>United Cooperatives, Inc.</b>			
<b>(Registered by Farmers Cooperative Exchange, Inc.)</b>			
Unico Dust for Small Fruits			
Methoxychlor .....	5.00		Passed
Captan .....	7.50		
Rotenone .....	1.00	Present	
Sulfur .....	25.00	24.84	
Theoretical chlorine .....	4.17	4.20	
Methoxychlor .....	5.00		Passed
Captan .....	7.50		
Rotenone .....	1.00	Present	
Sulfur .....	25.00	26.85	
Theoretical chlorine .....	4.17	4.70	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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### METHOXYCHLOR-FERBAM- ROTENONE-SULFUR

#### The Sherwin-Williams Co.

(Registered by Acme Quality Paints, Inc.)

#### Sherwin-Williams Flower Dust

Methoxychlor	5.00	5.50	Passed
Ferbam	7.60	7.82	
Rotenone	0.75	Present	
Sulfur	26.20	27.32	
Methoxychlor	5.00	5.53	Passed
Ferbam	7.60	7.35	
Rotenone	0.75	Present	
Sulfur	26.20	27.88	

### METHOXYCHLOR-FERBAM- ROTENONE-ZIRAM

#### Acme Quality Paints, Inc.

#### Acme All Round Dust

Methoxychlor	5.00	5.07	Passed
Ferbam	4.00		
Rotenone	0.75	Present	
Ziram	4.00		
Theoretical carbon disulfide	4.18	4.19	

### METHOXYCHLOR-FERBAM-SULFUR

#### E. I. du Pont de Nemours and Co.

#### Du Pont Fruit Tree Spray

Methoxychlor	12.50	13.37	Passed
Ferbam	15.20	16.01	
Sulfur	24.20	24.32	
Methoxychlor	12.50	13.12	Passed
Ferbam	15.20	15.20	
Sulfur	24.20	25.29	

#### The Sherwin-Williams Co.

(Registered by Acme Quality Paints, Inc.)

#### Sherwin-Williams Fruit Tree Spray

Methoxychlor	12.50	12.94	Passed
Ferbam	15.20	15.88	
Sulfur	24.20	25.48	
Methoxychlor	12.50	12.80	Passed
Ferbam	15.20	15.16	
Sulfur	24.20	24.20	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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### METHOXYCHLOR-HEXACHLOROPHENE-PIPERONYL BUTOXIDE-PYRETHRINS

#### The R. T. French Co.

##### Shoo Flea by French's

Methoxychlor	0.50		Passed
Hexachlorophene	0.10		
Piperonyl butoxide	0.48	0.45	
Pyrethrins	0.06	0.06	
Theoretical chlorine	0.20	0.23	
Methoxychlor	0.50		Passed
Hexachlorophene	0.10		
Piperonyl butoxide	0.48	0.47	
Pyrethrins	0.06	0.06	
Theoretical chlorine	0.20	0.25	
Methoxychlor	0.50		Passed
Hexachlorophene	0.10		
Piperonyl butoxide	0.48	0.50	
Pyrethrins	0.06	0.06	
Theoretical chlorine	0.20	0.24	

### METHOXYCHLOR-PIPERONYL BUTOXIDE-PYRETHRINS

#### California Spray-Chemical Corp.

##### (Now: California Chemical Company-Ortho Div.)

##### Ortho Home and Garden Insect Bomb

Methoxychlor	2.00	2.32	Passed
Piperonyl butoxide	0.50	0.74	
Pyrethrins	0.10	0.12	

#### Gulf Oil Corp.

##### Gulf Spray-Aerosol

Methoxychlor	2.00	2.12	Passed
Piperonyl butoxide	1.00	1.02	
Pyrethrins	0.25	0.27	
Methoxychlor	2.00	2.08	Passed
Piperonyl butoxide	1.00	1.19	
Pyrethrins	0.25	0.30	

#### Hot Shot Quality Products, Inc.

##### Hot Shot House and Garden Aerosol Spray Bug Killer

Methoxychlor	2.00	2.22	Passed
Piperonyl butoxide	0.30	0.24	
Pyrethrins	0.20	0.20	
Methoxychlor	2.00	2.05	Passed
Piperonyl butoxide	0.30	0.30	
Pyrethrins	0.20	0.24	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Rigo Manufacturing Co.</b>			
Kill-Ko Insect Bomb for House and Garden			
Methoxychlor .....	2.00	2.17	Passed
Piperonyl butoxide .....	0.50	0.60	
Pyrethrins .....	0.10	0.14	
<b>METHOXYCHLOR-ROTENONE</b>			
<b>Sears, Roebuck and Co.</b>			
Cross Country Vegetable Garden Dust			
Methoxychlor .....	5.00	5.75	Passed
Rotenone .....	1.25	0.94	
<b>METHOXYCHLOR-ROTENONE-ZINEB</b>			
<b>The Sherwin-Williams Co.</b>			
<b>(Registered by Acme Quality Paints, Inc.)</b>			
Sherwin-Williams Vegetable and Tomato Dust			
Methoxychlor .....	5.00	5.46	Passed
Rotenone .....	0.75	0.54	
Zineb .....	5.20	5.18	
<b>METHYL PARATHION</b>			
<b>California Chemical Company-Ortho Div.</b>			
Ortho Methyl Parathion 2 Emulsive			
Methyl parathion .....	24.00	24.30	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 2½ Methyl Parathion Dust			
Methyl parathion .....	2.50	2.38	Passed
<b>NAPHTHALENE</b>			
<b>Click Chemical Corp.</b>			
Click Moth Balls			
Naphthalene .....	100.00	99.80	Passed
<b>Koppers Company, Inc.</b>			
Koppers Moth Flakes			
Naphthalene .....	100.00	98.83	Passed
Koppers Moth Balls			
Naphthalene .....	100.00	99.50	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>The Mabex Co.</b>			
Woolworth's Moth Flakes			
Naphthalene .....	100.00	98.50	Passed
<b>NEMAGON</b>			
<b>Stephenson Chemical Company, Inc.</b>			
Stephenson 10% Nemagon Granules			
Nemagon .....	10.00	9.57	Misbranded
<b>Taylor Chemical Co.</b>			
Superkill 30% Granulated Nemagon			
Nemagon .....	30.00	28.51	Passed
do .....	30.00	29.79	Passed
do .....	30.00	28.11	Deficient
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 10% Granulated Nemagon			
Nemagon .....	10.00	9.36	Deficient
<b>NICOTINE</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Emo-Nik			
Nicotine alkaloid .....	1.50	1.75	Passed
<b>Black Leaf Products Co.</b>			
Black Leaf 40 Garden Spray			
Nicotine alkaloid .....	40.00	39.00	Passed
<b>PARATHION-SULFUR</b>			
<b>Taylor Chemical Co.</b>			
Superkill Peach Spray #2			
Parathion .....	3.70	3.98	Passed
Sulfur .....	75.00	76.23	
<b>PERTHANE</b>			
<b>S. C. Johnson and Sons, Inc.</b>			
Raid Moth Proofer			
Perthane .....	5.00	4.84	Passed
do .....	5.00	5.19	Misbranded

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**Mike, Inc.**

101 Brand Cabbage Dust No. 6

Perthane	6.00	6.47	Passed
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**PERTHANE-PIPERONYL  
BUTOXIDE-PYRETHRINS****Ralston Purina Co.**

Purina Home Aero-Spray

Perthane	2.00	2.66	Passed
Piperonyl butoxide	0.80	0.75	
Pyrethrins	0.20	0.24	

Perthane	2.00	2.50	Passed
Piperonyl butoxide	0.80	0.96	
Pyrethrins	0.20	0.22	

Perthane	2.00	2.58	Passed
Piperonyl butoxide	0.80	0.70	
Pyrethrins	0.20	0.24	

**United Cooperatives, Inc.**

(Registered by Farmers Cooperative Exchange, Inc.)

Unico Household Aerosol

Perthane	3.00	3.65	Passed
Piperonyl butoxide	0.60	0.53	
Pyrethrins	0.24	0.30	

Perthane	3.00	3.08	Passed
Piperonyl butoxide	0.60	0.53	
Pyrethrins	0.24	0.24	

**PERTHANE-PYRETHRINS****Ralston Purina Co.**

Purina Home Spray

Perthane	1.00	1.17	Passed
Pyrethrins	0.03	0.06	

**PHOSDRIN****W. R. Grace and Co.**

Davison Chemical Div.

Naco 2% Phosdrin Dust

Phosdrin	2.00	2.18	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand 2% Phosdrin Insecticide Dust			
Phosdrin .....	2.00	2.02	Passed
do .....	2.00	1.90	Passed
do .....	2.00	2.09	Passed
<b>PHOSPHORUS</b>			
<b>Common Sense Manufacturing Company, Inc.</b>			
Common Sense Cockroach Preparation			
Phosphorus .....	2.00	2.12	Passed
Common Sense Rat Preparation			
Phosphorus .....	2.00	1.92	Passed
<b>The Master Products Co.</b>			
Fireball Rat Paste			
Phosphorus .....	2.00	3.09	Passed
<b>PIVAL</b>			
<b>CessCo, Inc.</b>			
(Registered by Chemical and Equipment Sales and Service Co.)			
Bait Tox Ready-Mixed Rat Bait			
Pival .....	0.025	0.025	Passed
<b>Ralston Purina Co.</b>			
Purina Rat-Kill			
Pivalyn .....	0.0275	0.0250	Passed
do .....	0.0275	0.0278	Passed
Purina Rat Control Water Soluble			
Pivalyn .....	0.14	0.17	Passed
<b>PYRETHRINS</b>			
<b>Real-Kill Products</b>			
<b>Division of Cook Chemical Co.</b>			
Real-Kill Insect Bomb			
Pyrethrins .....	0.23	0.28	Passed
Real-Kill Insect Spray			
Pyrethrins .....	0.095	0.12	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**PYRETHRINS—DIAZINON—N-OCTYL BICYCLOHEPTENE  
DICARBOXIMIDE—PIPERONYL BUTOXIDE**

**Ralston Purina Co.**

**Purina Roach Bomb**

Pyrethrins	0.05	0.072	Passed
Diazinon	0.50		
N-octyl bicycloheptene dicarboximide	0.17		
Piperonyl butoxide	0.10	0.10	
Theoretical nitrogen	0.055	0.076	
Pyrethrins	0.05	0.06	Passed
Diazinon	0.50		
N-octyl bicycloheptene dicarboximide	0.17		
Piperonyl butoxide	0.10	0.07	
Theoretical nitrogen	0.055	0.123	

**Taylor Chemical Co.**

**Superkill New Roach and Ant Killer**

Pyrethrins	0.05	0.06	Passed
Diazinon	0.50		
N-octyl bicycloheptene dicarboximide	0.166		
Piperonyl butoxide	0.100	0.070	
Theoretical nitrogen	0.055	0.095	

**PYRETHRINS-DIAZINON-  
PIPERONYL BUTOXIDE**

**Maxwell Insecticide Company, Inc.**

**Maxwell Household Insect Spray**

Pyrethrins	0.052	0.065	Passed
Diazinon	0.500	0.970	
Piperonyl butoxide	0.261	0.260	

**PYRETHRINS-LETHANE 384**

**Real-Kill Products**

**Division of Cook Chemical Co.**

**Real-Kill Fly and Mosquito Killer Bomb**

Pyrethrins	0.20	0.27	Passed
Lethane 384	0.50	Present	

**Real-Kill Indoor-Outdoor Bomb**

Pyrethrins	0.20	0.32	Passed
Lethane 384	0.50	Present	
Pyrethrins	0.20	0.21	Passed
Lethane 384	0.50	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**PYRETHRINS-LETHANE 384-PINE  
OIL-PIPERONYL BUTOXIDE**

**Ralston Purina Co.**

**Purina Dairy Spray**

Pyrethrins	0.03	0.05	Passed
Lethane 384	1.00	Present	
Pine oil	2.00	Present	
Piperonyl butoxide	0.24	0.12	

**PYRETHRINS-LETHANE  
384-PIPERONYL BUTOXIDE**

**Gulf Oil Corp.**

**Gulf Livestock Spray**

Pyrethrins	0.05	0.07	Passed
Lethane 384	0.60	Present	
Piperonyl butoxide	0.25	0.23	

**PYRETHRINS-PIPERONYL BUTOXIDE**

**Agricultural Specialties**

**Starbar Redi-Foam Face Fly Bomb**

Pyrethrins	0.10	0.10	Passed
Piperonyl butoxide	1.00	0.95	

**Anchor Serum Co.**

**Anchor Dairy Spray**

Pyrethrins	0.025	0.04	Not
Piperonyl butoxide	0.065	0.06	Registered

**The Great Atlantic and Pacific Tea Company, Inc.**

**Bright Sail Aerosol Insect Killer**

Pyrethrins	0.30	0.22	Passed
Piperonyl butoxide	0.60	0.61	
Pyrethrins	0.30	0.29	Passed
Piperonyl butoxide	0.60	0.69	

**Colonial Stores, Inc.**

**New 3-D Non-Toxic Insect Killer**

Pyrethrins	0.30	0.29	Passed
Piperonyl butoxide	0.60	0.69	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>The Dill Company, Inc.</b>			
Dill's Spray Kills Moth and Mosquito			
Pyrethrins .....	0.031	0.048	Passed
Piperonyl butoxide .....	0.251	0.233	
Pyrethrins .....	0.031	0.050	Passed
Piperonyl butoxide .....	0.251	0.220	
<b>Douglas Chemical Co.</b>			
Douglas Special Mill Spray			
Pyrethrins .....	0.14	0.16	Passed
Piperonyl butoxide .....	1.39	1.38	
<b>Hot Shot Quality Products, Inc.</b>			
Hot Shot Fly and Mosquito, Insect Killer			
Pyrethrins .....	0.25	0.26	Passed
Piperonyl butoxide .....	0.375	0.43	
<b>S. C. Johnson and Son, Inc.</b>			
Raid Insect Spray			
Pyrethrins .....	0.075	0.10	Passed
Piperonyl butoxide .....	0.150	0.14	
Pyrethrins .....	0.075	0.09	Passed
Piperonyl butoxide .....	0.150	0.16	
Raid House and Garden Bug Killer			
Pyrethrins .....	0.25	0.26	Passed
Piperonyl butoxide .....	0.80	0.76	
Pyrethrins .....	0.25	0.30	Passed
Piperonyl butoxide .....	0.80	0.78	
Pyrethrins .....	0.25	0.30	Passed
Piperonyl butoxide .....	0.80	0.77	
Pyrethrins .....	0.25	0.26	Passed
Piperonyl butoxide .....	0.80	0.76	
<b>Polk-Miller Products Corp.</b>			
Sergeant's Skip-Flea Shampoo for Dogs			
Pyrethrins .....	0.05	Present	
Piperonyl butoxide .....	0.50	0.51	
<b>Ralston Purina Co.</b>			
Purina Face and Horsefly Insecticide			
Pyrethrins .....	0.06	0.08	Passed
Piperonyl butoxide .....	0.12	0.091	
Purina Face and Horsefly Bomb			
Pyrethrins .....	0.18	0.24	Passed
Piperonyl butoxide .....	0.36	0.37	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Purina Dairy Oiler Insecticide Concentrate</b>			
Pyrethrins .....	0.50	0.46	Passed
Piperonyl butoxide .....	1.00	0.98	
<b>Rigo Manufacturing Co.</b>			
<b>Kill-Ko Kattle Spray</b>			
Pyrethrins .....	0.03	0.054	Passed
Piperonyl butoxide .....	0.30	0.32	
<b>United Cooperatives, Inc.</b>			
<b>(Registered by Farmers Cooperative Exchange, Inc.)</b>			
<b>Unico Livestock and Barn Fogging Spray</b>			
Pyrethrins .....	0.10	0.12	Passed
Piperonyl butoxide .....	1.00	0.94	
<b>Whitmoyer Laboratories, Inc.</b>			
<b>Whitmoyer New, Improved Whitspray Dairy Cattle, Barn and Livestock Spray</b>			
Pyrethrins .....	0.05	0.05	Passed
Piperonyl butoxide .....	0.10	0.17	
<b>PYRETHRINS-PIPERONYL BUTOXIDE-PINE OIL</b>			
<b>California Chemical Company-Ortho Div.</b>			
<b>Ortho Dairy and Stock Fly Spray</b>			
Pyrethrins .....	0.03	0.05	Misbranded
Piperonyl butoxide .....	0.25	0.22	
Pine oil .....	0.025	Present	
<b>Hess and Clark</b>			
<b>Division of Richardson-Merrell, Inc.</b>			
<b>Hess and Clark Hesspray For Livestock</b>			
Pyrethrins .....	0.03	0.06	Passed
Piperonyl butoxide .....	0.30	0.25	
Pine oil .....	0.56	Present	
<b>PYRETHRINS-PIPERONYL BUTOXIDE-RONNEL-STROBANE-THANITE</b>			
<b>California Chemical Company-Ortho Div.</b>			
<b>Ortho Mosquito and Fly Bomb</b>			
Pyrethrins .....	0.025	0.08	Passed
Piperonyl butoxide .....	0.20	0.17	
Ronnel .....	0.40		
Strobane .....	1.00		
Thanite .....	1.00	Present	
Theoretical chlorine .....	0.79	0.83	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>PYRETHRINS-PIPERONYL BUTOXIDE-STROBANE</b>			
<b>Colgate-Palmolive Co.</b>			
Kan-Kil Aerosol Fly and Mosquito Killer			
Pyrethrins . . . . .	0.20	0.18	Deficient
Piperonyl butoxide . . . . .	0.50	0.49	
Strobane . . . . .	2.00	1.89	
<b>Hess and Clark</b>			
<b>Division of Richardson-Merrell, Inc.</b>			
Hess and Clark Hess Bomb			
Pyrethrins . . . . .	0.20	0.26	Passed
Piperonyl butoxide . . . . .	0.80	1.06	
Strobane . . . . .	2.00	1.90	
<b>RONNEL</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme R.N.L. Roach Blaster			
Ronnel . . . . .	2.00	2.52	Passed
do . . . . .	2.00	2.43	Passed
<b>ROTENONE</b>			
<b>Black Leaf Products Co.</b>			
Black Leaf 1% Rotenone Garden Dust			
Rotenone . . . . .	1.00	0.96	Passed
<b>California Spray-Chemical Corp.</b>			
<b>(Now: California Chemical Company-Ortho Div.)</b>			
Ortho Cattle Grub Spray or Dust			
Rotenone . . . . .	5.00	5.05	Passed
<b>Cape Fear Chemicals, Inc.</b>			
Tiger Brand 1% Rotenone Dust			
Rotenone . . . . .	1.00	1.29	Passed
<b>Carolina Chemical Corp.</b>			
Rotenone 1% Dust			
Rotenone . . . . .	1.00	0.68	Deficient
do . . . . .	1.00	0.80	Passed
do . . . . .	1.00	0.80	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Carolina Chemicals, Inc.</b>			
Flight Brand Bean Beetle Dust			
Rotenone .....	1.00	0.82	Passed
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand 1% Rotenone Dust			
Rotenone .....	1.00	0.45	Deficient
do .....	1.00	0.97	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX Rotox "100"			
Rotenone .....	1.00	0.92	Passed
do .....	1.00	0.90	Passed
do .....	1.00	0.92	Passed
FCX 5% Rotenone Wettable Powder			
Rotenone .....	5.00	4.40	Deficient
<b>GurMiCo Chemicals, Inc.</b>			
GurMiCo 1% Rotenone Dust			
Rotenone .....	1.00	0.49	Deficient
do .....	1.00	1.00	Passed
<b>Hess and Clark</b>			
<b>Division of Richardson-Merrell, Inc.</b>			
Hess and Clark Powdered Louse Killer			
Rotenone .....	0.50	0.49	Passed
do .....	0.50	0.54	Passed
do .....	0.50	0.46	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 1% Rotenone Dust			
Rotenone .....	1.00	0.82	Passed
<b>One-Spot Co.</b>			
One-Spot Flea Killer			
Rotenone .....	1.00	1.07	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 1% Rotenone Dust			
Rotenone .....	1.00	0.80	Passed
<b>Planters Chemical Corp.</b>			
Planters 1% Rotenone Dust			
Rotenone .....	1.00	1.03	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**Taylor Chemical Co.**

## Superkill 1 % Rotenone Dust For Beans

Rotenone	1.00	0.75	Deficient
do	1.00	0.78	Deficient
do	1.00	0.80	Passed

**Woolfolk Chemical Works, Ltd.**

## Security Brand Mexide 1 % Rotenone Dust

Rotenone	1.00	0.73	Deficient
do	1.00	0.83	Passed
do	1.00	1.01	Passed
do	1.00	0.82	Passed

**ROTENONE-DICHLOROPHENE-HEXACHLOROPHENE****The Hilo Co.****Division of Natcon Chemical Company, Inc.**

## Hilo Flea and Fungus Powder

Rotenone	1.20	1.20	Passed
Dichlorophene	0.50		
Hexachlorophene	0.50		
Theroetical chlorine	0.39	0.38	

**ROTENONE-NAPHTHALENE-SULFUR****William Cooper and Nephews, Inc.**

## Cooper Dri-Kill

Rotenone	0.10	Present	Passed
Naphthalene	4.00	3.86	
Sulfur	10.00	10.85	

**ROTENONE-PINE OIL-PIPERONYL  
BUTOXIDE-PYRETHRINS****Chemical and Equipment Sales and Service Co.**

## Cess Co Safe Guard Dairy and Livestock Insecticide and Repellent

Rotenone	0.10	Present	Passed
Pine oil		Present	
Piperonyl butoxide	0.10	0.14	
Pyrethrins	0.04	0.06	

**ROTENONE-PIPERONYL  
BUTOXIDE-PYRETHRINS****The Hilo Co.****Division of Natcon Chemical Company, Inc.**

## Hilo Dog Spray

Rotenone	0.128	Present	Passed
Piperonyl butoxide	0.256	0.308	
Pyrethrins	0.025	0.028	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE-PYRETHRINS-SULFUR			
Southern Agricultural Insecticide, Inc.			
SA-50 Brand Mexican Bean Beetle Control			
Rotenone .....	0.50	0.72	Passed
Pyrethrins .....	0.04	0.10	
Sulfur .....	18.00	19.08	
Rotenone .....	0.50	0.42	Passed
Pyrethrins .....	0.08	0.12	
Sulfur .....	18.00	17.53	
SA-50 Brand SA-100 for Mexican Bean Beetle Control			
Rotenone .....	1.00	1.03	Passed
Pyrethrins .....	0.08	0.15	
Sulfur .....	18.00	18.30	
Rotenone .....	1.00	0.85	Passed
Pyrethrins .....	0.08	0.10	
Sulfur .....	18.00	19.25	
ROTENONE-SULFUR			
Daly-Herring Co.			
Dee Aitch Rotenone Sulfur Dust			
Rotenone .....	1.00	0.98	Passed
Sulfur .....	15.00	14.60	
Rotenone .....	1.00	0.90	Passed
Sulfur .....	15.00	14.56	
Farmers Cooperative Exchange, Inc.			
FCX Cattle Grub and Louse Powder			
Rotenone .....	1.60	1.21	Deficient
Sulfur .....	45.00	41.86	
Graham Chemical Company, Inc.			
Graham's Red Star Agricultural Rotenone Dust			
Rotenone .....	1.00	1.06	Passed
Sulfur .....	15.00	15.86	
Rotenone .....	1.00	1.09	Passed
Sulfur .....	15.00	14.39	
Rotenone .....	1.00	1.03	Passed
Sulfur .....	15.00	14.98	
Graham's Red Star Agricultural Vegetable Dust			
Rotenone .....	1.00	1.14	Passed
Sulfur .....	15.00	16.00	
Rotenone .....	1.00	1.16	Passed
Sulfur .....	15.00	16.19	
Rotenone .....	1.00	1.06	Passed
Sulfur .....	15.00	16.70	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham's Red Star Agricultural Vegetable Dust (Continued)			
Rotenone .....	1.00	1.11	Passed
Sulfur .....	15.00	16.05	
Rotenone .....	1.00	1.05	Passed
Sulfur .....	15.00	15.95	
<b>J. M. Harris and Company, Inc.</b>			
Blue Dragon Dust			
Rotenone .....	0.75	0.72	Passed
Sulfur .....	10.00	9.79	
Rotenone .....	0.75	0.61	Passed
Sulfur .....	10.00	10.33	
Rotenone .....	0.75	0.68	Passed
Sulfur .....	10.00	9.92	
Rotenone .....	0.75	0.72	Passed
Sulfur .....	10.00	10.36	
<b>Sam Houston Co.</b>			
Houston's Rotenone Sulfur-Talc Mix			
Rotenone .....	0.75	0.55	Passed
Sulfur .....	10.00	9.85	
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 1% Rotenone Dust			
Rotenone .....	1.00	0.82	Passed
Sulfur .....	15.00	15.23	
Rotenone .....	1.00	0.98	Passed
Sulfur .....	15.00	14.95	
Rotenone .....	1.00	1.03	Passed
Sulfur .....	15.00	14.78	
Rotenone .....	1.00	0.80	Passed
Sulfur .....	15.00	14.35	
Rotenone .....	1.00	1.00	Passed
Sulfur .....	15.00	15.24	
Maxwell Cattle Grub and Louse Powder			
Rotenone .....	1.50	1.80	Passed
Sulfur .....	65.00	63.39	
<b>W. R. Peele Company, Inc.</b>			
Pelco 1% Rotenone Dust			
Rotenone .....	1.00	1.00	Deficient
Sulfur .....	15.00	11.29	
Rotenone .....	1.00	1.04	Passed
Sulfur .....	15.00	14.93	
<b>Ralston Purina Co.</b>			
Purina Lice and Grub Killer			
Rotenone .....	1.67	1.23	Deficient
Sulfur .....	50.00	50.00	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Wyatt Quarles Seed Co.</b>			
Wyatt's 1% Rotenone Dust			
Rotenone .....	1.00	0.88	Passed
Sulfur .....	15.00	14.61	
Rotenone .....	1.00	0.94	Passed
Sulfur .....	15.00	15.19	
Rotenone .....	1.00	0.99	Passed
Sulfur .....	15.00	14.54	
Rotenone .....	1.00	0.91	Passed
Sulfur .....	15.00	14.38	
Rotenone .....	1.00	0.84	Passed
Sulfur .....	15.00	14.72	
<b>SABADILLA</b>			
<b>Carolina Chemicals, Inc.</b>			
Flight Brand 20% Ground Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.79	Passed
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.78	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.88	Passed
<b>W. R. Peele Company, Inc.</b>			
Pelco 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.80	Passed
do .....	0.80	0.81	Passed
do .....	0.80	0.84	Passed
<b>Taylor Chemical Co.</b>			
Superkill 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.82	Passed
do .....	0.80	0.78	Passed
<b>Wyatt-Quarles Seed Co.</b>			
Wyatt-Quarles 20% Sabadilla Dust			
Sabadilla alkaloids .....	0.80	0.96	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>SEVIN</b>			
<b>Acme Quality Paints, Inc.</b>			
Acme Sevin 50W			
Sevin .....	50.00	50.79	Passed
do .....	50.00	51.50	Passed
<b>California Chemical Company-Ortho Div.</b>			
Ortho Sevin Bean Dust			
Sevin .....	1.75	1.79	Passed
do .....	1.75	1.70	Passed
Ortho Sevin 5 Dust			
Sevin .....	5.00	5.24	Passed
Ortho Sevin 10 Dust			
Sevin .....	10.00	10.38	Passed
<b>Carolina Chemicals, Inc.</b>			
Flight Brand Sevin Bean Dust			
Sevin .....	1.75	1.73	Passed
Flight Brand 10% Sevin Dust			
Sevin .....	10.00	10.40	Passed
do .....	10.00	9.79	Passed
<b>Daly-Herring Co.</b>			
Dee Aitch Sevin Bean Dust			
Sevin .....	1.75	1.82	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX "7" Dust			
Sevin .....	1.75	1.81	Passed
do .....	1.75	1.77	Passed
do .....	1.75	1.88	Passed
do .....	1.75	1.77	Passed
FCX 5% Sevin Dust			
Sevin .....	5.00	4.79	Passed
<b>W. R. Grace and Co.</b>			
<b>Davison Chemical Div.</b>			
Naco 1¾% Sevin Dust			
Sevin .....	1.75	1.58	Deficient
Naco 10% Sevin Dust			
Sevin .....	10.00	10.78	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Joro, Inc.</b>			
Nok-Out 500 Dust			
Sevin .....	5.00	5.34	Passed
<b>Miller Chemical and Fertilizer Corp.</b>			
Miller 7½ % Sevin Dust			
Sevin .....	7.50	8.23	Passed
Miller 10% Sevin Insecticide Dust			
Sevin .....	10.00	10.06	Passed
<b>Niagara Chemical Div. Food Machinery and Chemical Corp.</b>			
Niagara Sevin 5 Dust			
Sevin .....	5.00	7.28	Excessive Active Ingredient
<b>Planters Chemical Corp.</b>			
Planters 10% Sevin Dust			
Sevin .....	10.00	10.74	Passed
<b>Rigo Manufacturing Co.</b>			
Kill-Ko Flea Powder			
Sevin .....	5.00	3.80	Deficient
<b>Stauffer Chemical Co.</b>			
Sevin 1.75 Dust			
Sevin .....	1.75	2.09	Passed
<b>Taylor Chemical Co.</b>			
Superkill 1¾ Sevin Dust			
Sevin .....	1.75	2.74	Excessive Active Ingredient
do .....	1.75	1.95	Passed
do .....	1.75	1.89	Passed
do .....	1.75	1.96	Passed
Superkill 5% Sevin Dust			
Sevin .....	5.00	5.36	Passed
do .....	5.00	5.42	Passed
Superkill Flea and Tick Powder			
Sevin .....	5.00	5.19	Passed
Superkill 7½ % Sevin Dust			
Sevin .....	7.50	7.80	Passed
Superkill 10% Sevin Dust			
Sevin .....	10.00	10.93	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Union Carbide Chemicals Co.</b>			
<b>Division of Union Carbide Corp.</b>			
Crag Sevin Sprayable Insecticide			
Sevin .....	80.00	82.40	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Sevin Bean Dust			
Sevin .....	1.75	1.87	Passed
do .....	1.75	1.73	Passed
do .....	1.75	2.00	Passed
Security Brand Superior Quality 1¾ Sevin Dust			
Sevin .....	1.75	1.87	Passed
Security Brand 5% Sevin Garden Dust			
Sevin .....	5.00	4.92	Passed
do .....	5.00	5.01	Passed
Security Brand 7½% Sevin Cotton Dust			
Sevin .....	7.50	8.01	Passed
do .....	7.50	7.63	Passed
Security Brand 10% Sevin Cotton Dust			
Sevin .....	10.00	14.09	Passed
do .....	10.00	10.30	Passed

**SEVIN-CHLORANIL****Polk Miller Products Corp.****Sergeant's Ship-Flea Scratch Powder**

Sevin .....	5.00	5.45	Passed
Chloranil .....	5.00	6.00	

**SEVIN-DICHLOROPHENE****Hartz Mountain Products Corp.****Hartz Mountain Flea Powder**

Sevin .....	5.00	5.02	Passed
Dichlorophene .....	0.50	0.36	

**SEVIN-SULFUR****W. R. Grace and Co.****Davison Chemical Div.****Naco 1¾% Sevin-50% Sulfur**

Sevin .....	1.75	2.00	Passed
Sulfur .....	50.00	49.09	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Stauffer Chemical Co.</b>			
Stauffer Sevin Sulfur 1.75-60 Dust			
Sevin .....	1.75	2.09	Passed
Sulfur .....	60.00	57.71	
Sevin Sulfur 5-50 Dust			
Sevin .....	5.00	5.45	Deficient
Sulfur .....	50.00	44.23	
<b>SILVEX</b>			
<b>California Spray-Chemical Corp.</b>			
<b>(Now: California Chemical Company-Ortho Div.)</b>			
Ortho Chick Weed and Clover Killer			
Iso octyl ester of 2-(2,4,5-trichloro- phenoxy) propionic acid .....	13.80	13.40	Passed
<b>SULFUR</b>			
<b>Rapid Chemical Co.</b>			
Rapid-Kill Rodent Destroyer			
Sulfur .....	34.80	38.85	Misbranded
do .....	34.80	39.53	Misbranded
<b>THALLIUM SULFATE</b>			
<b>Arnott Chemical and Exterminating Co.</b>			
Arnco Poison P-Nuts			
Thallium sulfate .....	1.00	1.02	Passed
<b>Black Magic Co.</b>			
Black Magic Roach, Waterbug, Ant and Mouse Destroyer			
Thallium sulfate .....	1.25	1.79	Passed
<b>O. E. Linck Company, Inc.</b>			
Tat Mo-Go			
Thallium sulfate .....	1.00	1.03	Passed
do .....	1.00	1.18	Passed
do .....	1.00	0.98	Passed
do .....	1.00	0.97	Passed
do .....	1.00	1.08	Passed
do .....	1.00	1.09	Passed
do .....	1.00	1.05	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>The Master Products Co.</b>			
Rat Stop			
Thallium sulfate .....	1.00	1.07	Passed
do .....	1.00	1.15	Passed
<b>Nott Manufacturing Company, Inc.</b>			
Nott Mole-Nots			
Thallium sulfate .....	1.00	1.13	Passed
do .....	1.00	1.14	Passed
do .....	1.00	1.16	Passed
<b>TOXAPHENE</b>			
<b>Carolina Chemical Corp.</b>			
Toxaphene Emulsible			
Toxaphene .....	59.00	59.80	Passed
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand Toxaphene Emulsion Concentrate			
Toxaphene .....	60.00	63.27	Passed
<b>Daly-Herring Co.</b>			
Dee Aitch 20% Toxaphene Cotton Dust			
Toxaphene .....	20.00	20.57	Passed
Dee Aitch 60% Toxaphene Emulsifiable Concentrate			
Toxaphene .....	60.40	61.84	Passed
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 20-0 Toxaphene			
Toxaphene .....	20.00	20.72	Passed
FCX Toxaphene Emulsion Concentrate			
Toxaphene .....	60.00	61.57	Passed
do .....	60.00	60.81	Passed
do .....	60.00	58.58	Passed
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell Toxaphene Emulsion 60			
Toxaphene .....	60.40	61.87	Passed
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Toxaphene "20" Dust			
Toxaphene .....	20.00	21.00	Passed
Mathieson 6 lb. Emulsifiable Liquid			
Toxaphene .....	58.80	59.52	Passed
do .....	58.80	59.37	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>W. R. Peele Company, Inc.</b>			
Pelco Toxaphene 60-E. C.			
Toxaphene .....	57.50	60.20	Passed
do .....	57.50	60.94	Passed
<b>Planters Chemical Corp.</b>			
Planters Toxaphene 6 lb. Emulsion Concentrate			
Toxaphene .....	60.00	62.00	Passed
do .....	60.00	61.66	Passed
do .....	60.00	62.43	Passed
<b>Taylor Chemical Co.</b>			
Superkill 20% Toxaphene Dust Without Sulfur			
Toxaphene .....	20.00	20.57	Passed
<b>United Cooperatives, Inc. (Registered by Farmers Cooperative Exchange, Inc.)</b>			
Unico Toxaphene Emulsion Concentrate			
Toxaphene .....	60.00	58.43	Passed
do .....	60.00	59.90	Passed
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 20% Toxaphene Dust			
Toxaphene .....	20.00	20.56	Passed
<b>TOXAPHENE-DDT</b>			
<b>Acme Fertilizer Co.</b>			
Acme Toxaphene-DDT Emulsion			
Toxaphene .....	39.60		Passed
DDT .....	19.80		
Theoretical chlorine .....	36.43	35.94	
<b>California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)</b>			
Ortho Toxaphene-DDT 14-7 Dust			
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.13	
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	12.86	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Carolina Chemicals, Inc.</b>			
Flight Brand Toxaphene-DDT Dust 14-7			
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.13	
<b>Carolina Chemical Corp.</b>			
Cotton Special			
Toxaphene .....	40.00		Deficient
DDT .....	23.00		
Theoretical chlorine .....	38.30	32.25	
<b>Carter Insecticide and Chemical Company, Inc.</b>			
Carolina Brand Toxaphene-DDT 40-20 Emulsifiable Concentrate			
Toxaphene .....	40.00		Deficient
DDT .....	20.00		
Theoretical chlorine .....	36.80	33.97	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	35.14	
<b>Coastal Chemical Corp.</b>			
40% Toxaphene 20% DDT Emulsifiable Concentrate			
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.57	
<b>Daly-Herring Co.</b>			
Dee Aitch 40% Toxaphene 20% DDT Emulsifiable Concentrate			
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.05	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.76	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	36.50	
<b>Farmers Cooperative Exchange, Inc.</b>			
FCX 20-10 Dust			
Toxaphene .....	20.00		Passed
DDT .....	10.00		
Theoretical chlorine .....	18.40	18.00	
FCX "42" Cotton Spray			
Toxaphene .....	38.70		Passed
DDT .....	19.30		
Theoretical chlorine .....	35.58	36.87	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>GurMiCo Chemicals, Inc.</b>			
Toxaphene 4 DDT 2 Emulsion			
Toxaphene . . . . .	38.00		Passed
DDT . . . . .	19.00		
Theoretical chlorine . . . . .	34.96	38.21	
Toxaphene . . . . .	38.00		Passed
DDT . . . . .	19.00		
Theoretical chlorine . . . . .	34.96	37.64	
Toxaphene . . . . .	38.00		Passed
DDT . . . . .	19.00		
Theoretical chlorine . . . . .	34.96	37.55	
Toxaphene . . . . .	38.00		Passed
DDT . . . . .	19.00		
Theoretical chlorine . . . . .	34.96	38.03	
<b>Maxwell Insecticide Company, Inc.</b>			
Maxwell Toxaphene-DDT Dust			
Toxaphene . . . . .	14.00		Passed
DDT . . . . .	7.00		
Theoretical chlorine . . . . .	12.88	13.13	
Maxwell Toxaphene-DDT Emulsion 4-2			
Toxaphene . . . . .	40.00		Passed
DDT . . . . .	20.00		
Theoretical chlorine . . . . .	36.80	38.04	
Toxaphene . . . . .	40.00		Passed
DDT . . . . .	20.00		
Theoretical chlorine . . . . .	36.80	39.02	
Toxaphene . . . . .	40.00		Passed
DDT . . . . .	20.00		
Theoretical chlorine . . . . .	36.80	37.67	
Toxaphene . . . . .	40.00		Passed
DDT . . . . .	20.00		
Theoretical chlorine . . . . .	36.80	37.46	
Toxaphene . . . . .	40.00		Passed
DDT . . . . .	20.00		
Theoretical chlorine . . . . .	36.80	36.18	
Toxaphene . . . . .	40.00		Passed
DDT . . . . .	20.00		
Theoretical chlorine . . . . .	36.80	38.13	
<b>Meherrin Agricultural and Chemical Co.</b>			
Red Kay DDT-Toxaphene 7-14 Dust			
Toxaphene . . . . .	14.00		Passed
DDT . . . . .	7.00		
Theoretical chlorine . . . . .	12.88	13.16	
<b>Olin Mathieson Chemical Corp.</b>			
Mathieson Toxaphene 14-DDT 7 Dust			
Toxaphene . . . . .	14.00		Passed
DDT . . . . .	7.00		
Theoretical chlorine . . . . .	12.88	12.84	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Mathieson Toxaphene 14-DDT 7 Dust (Continued)</b>			
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	12.78	
<b>W. R. Peele Company, Inc.</b>			
<b>Pelco 14-7 Toxaphene DDT Dust</b>			
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.58	
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.06	
<b>Pelco Toxaphene-DDT Emulsion Concentrate</b>			
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	35.87	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	36.08	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.08	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	36.05	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	35.98	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.44	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	36.89	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.54	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.03	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	36.17	
<b>Planters Chemical Corp.</b>			
<b>Planters Toxaphene-DDT Emulsion Concentrate</b>			
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.88	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Planters Toxaphene-DDT Emulsion Concentrate (Continued)</b>			
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	36.65	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.78	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.05	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.61	
<b>Swift and Co.</b>			
<b>Agricultural Chemical Div.</b>			
<b>Swift's Gold Bear VD 147D</b>			
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.04	
<b>Swift's Gold Bear Toxaphene-DDT VD42E</b>			
Toxaphene .....	38.70		Passed
DDT .....	19.40		
Theoretical chlorine .....	35.63	35.92	
<b>Taylor Chemical Co.</b>			
<b>Superkill 14% Toxaphene 7% DDT Dust</b>			
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	12.86	
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.13	
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.57	
<b>Superkill 4:2 Toxaphene-DDT</b>			
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Theoretical chlorine .....	36.80	37.09	
<b>United Cooperatives, Inc.</b>			
<b>(Registered by Farmers Cooperative Exchange, Inc.)</b>			
<b>Unico "42" Cotton Spray</b>			
Toxaphene .....	38.70		Passed
DDT .....	19.30		
Theoretical chlorine .....	35.58	36.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand Toxaphene-DDT 2-1 Dust			
Toxaphene .....	14.00		Passed
DDT .....	7.00		
Theoretical chlorine .....	12.88	13.13	
Security Brand Toxaphene-DDT 20-10 Dust			
Toxaphene .....	20.00		Passed
DDT .....	10.00		
Theoretical chlorine .....	18.40	18.26	
<b>TOXAPHENE-DDT-METHYL PARATHION</b>			
<b>W. R. Peele Company, Inc.</b>			
Pelco 2-4-5 Super Cotton Spray			
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Methyl parathion .....	5.00	4.76	
Theoretical chlorine .....	36.80	36.56	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Methyl parathion .....	5.00	4.77	
Theoretical chlorine .....	36.80	35.06	
Toxaphene .....	40.00		Passed
DDT .....	20.00		
Methyl parathion .....	5.00	4.85	
Theoretical chlorine .....	36.80	36.43	
Toxaphene .....	40.00		Deficient
DDT .....	20.00		
Methyl parathion .....	5.00	4.71	
Theoretical chlorine .....	36.80	36.56	
<b>Swift and Co.</b>			
<b>Agricultural Chemical Div.</b>			
Swift's Gold Bear Super Guard 215			
Toxaphene .....	10.00		Passed
DDT .....	5.00		
Methyl parathion .....	2.50	2.45	
Theoretical chlorine .....	9.20	9.93	
<b>Woolfolk Chemical Works, Ltd.</b>			
Security Brand 3-Way Cotton Spray 4-2½			
Toxaphene .....	37.70		Passed
DDT .....	19.00		
Methyl parathion .....	4.80	4.96	
Theoretical chlorine .....	34.76	38.73	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**TOXAPHENE-DDT-PARATHION****Maxwell Insecticide Company, Inc.****Maxwell 14-7-1 Cotton Dust**

Toxaphene	14.00		Passed
DDT	7.00		
Parathion	1.00	1.12	
Theoretical chlorine	12.88	13.93	
Toxaphene	14.00		Passed
DDT	7.00		
Parathion	1.00	1.01	
Theoretical chlorine	12.88	13.53	

**W. R. Peele Company, Inc.****Pelco 14-7-1 Toxaphene DDT Parathion Dust**

Toxaphene	14.00		Passed
DDT	7.00		
Parathion	1.00	1.05	
Theoretical chlorine	12.88	13.93	
Toxaphene	14.00		Passed
DDT	7.00		
Parathion	1.00	1.08	
Theoretical chlorine	12.88	13.25	

**Taylor Chemical Co.****Superkill 14% Toxaphene 7% DDT 1% Parathion Dust**

Toxaphene	14.00		Passed
DDT	7.00		
Parathion	1.00	1.17	
Theoretical chlorine	12.88	12.95	

**TOXAPHENE-MALATHION****Agricultural Specialties****Star-Bar Div.****Lintox-M Livestock Spray**

Toxaphene	43.00	44.27	Passed
Malathion	4.30	4.33	

**TOXAPHENE-PARATHION****California Chemical Company-Ortho Div.****Ortho Parathion-Toxaphene 2-10 Dust**

Toxaphene	10.00	10.49	Deficient
Parathion	2.00	1.86	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>California Spray-Chemical Corp.</b> <b>(Now: California Chemical Company-Ortho Div.)</b>			
Ortho Parathion-Toxaphene 2-10 Dust			
Toxaphene .....	10.00	9.86	Passed
Parathion .....	2.00	1.90	
Toxaphene .....	10.00	10.63	Passed
Parathion .....	2.00	2.35	
Ortho Parathion-Toxaphene 2-20 Dust			
Toxaphene .....	20.00	19.72	Passed
Parathion .....	2.00	1.90	
<b>W. R. Grace and Co.</b> <b>Davison Chemical Div.</b>			
Naco 2% Parathion and 10% Toxaphene Dust			
Toxaphene .....	10.00	10.29	Passed
Parathion .....	2.00	1.93	
Toxaphene .....	10.00	10.14	Passed
Parathion .....	2.00	2.02	
<b>Mike, Inc.</b>			
101 Brand Pre-Heading Cabbage Dust with Toxaphene			
Toxaphene .....	10.00	9.72	Deficient
Parathion .....	1.50	1.23	
Toxaphene .....	10.00	9.93	Passed
Parathion .....	1.50	1.55	
<b>Southern Agricultural Insecticides, Inc.</b>			
SA-50 Brand Pre Heading Cabbage Dust with Toxaphene			
Toxaphene .....	10.00	11.13	Passed
Parathion .....	1.50	1.65	
Toxaphene .....	10.00	10.72	Passed
Parathion .....	1.50	1.71	
Toxaphene .....	10.00	10.79	Passed
Parathion .....	1.50	1.53	
Toxaphene .....	10.00	10.72	Passed
Parathion .....	1.50	1.68	
Toxaphene .....	10.00	10.43	Passed
Parathion .....	1.50	1.66	
Toxaphene .....	10.00	10.14	Passed
Parathion .....	1.50	1.59	
Toxaphene .....	10.00	10.42	Passed
Parathion .....	1.50	1.65	
Toxaphene .....	10.00	10.86	Passed
Parathion .....	1.50	1.64	
Toxaphene .....	10.00	10.72	Passed
Parathion .....	1.50	1.63	
Toxaphene .....	10.00	11.13	Passed
Parathion .....	1.50	1.75	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>SA-50 Brand Pre Heading Cabbage with Toxaphene (Continued)</b>			
Toxaphene .....	10.00	10.78	Passed
Parathion .....	1.50	1.51	
Toxaphene .....	10.00	10.64	Passed
Parathion .....	1.50	1.85	
Toxaphene .....	10.00	10.29	Passed
Parathion .....	1.50	1.76	
Toxaphene .....	10.00	10.43	Passed
Parathion .....	1.50	1.61	
<b>SA-50 Brand Pre-Head Dust</b>			
Toxaphene .....	20.00	20.28	Passed
Parathion .....	2.00	2.08	
Toxaphene .....	20.00	19.72	Passed
Parathion .....	2.00	2.13	
Toxaphene .....	20.00	20.00	Passed
Parathion .....	2.00	2.08	
Toxaphene .....	20.00	20.29	Passed
Parathion .....	2.00	2.19	
Toxaphene .....	20.00	20.86	Passed
Parathion .....	2.00	2.05	
Toxaphene .....	20.00	20.28	Passed
Parathion .....	2.00	2.13	
Toxaphene .....	20.00	20.14	Passed
Parathion .....	2.00	2.48	
Toxaphene .....	20.00	19.14	Passed
Parathion .....	2.00	1.99	
Toxaphene .....	20.00	20.29	Passed
Parathion .....	2.00	2.01	
<b>WARFARIN</b>			
<b>American Scientific Laboratories, Inc.</b>			
<b>ASL Banarat Warfarin Bits</b>			
Warfarin .....	0.025	0.025	Passed
<b>California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)</b>			
<b>Ortho Pelleted Rat and Mice Bait</b>			
Warfarin .....	0.025	0.024	Passed
<b>Colonial Products, Inc.</b>			
<b>Colonial-42</b>			
Warfarin .....	0.025	0.030	Passed
<b>The d-Con Company, Inc.</b>			
<b>d-Con Ready Mixed Ready to use Exclusive Blend LX 3-2-1</b>			
Warfarin .....	0.025	0.033	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>d-Con Mouse Prufe</b>			
Warfarin (sodium salt) .....	0.054	0.054	Passed
do .....	0.054	0.054	Passed
do .....	0.054	0.052	Passed
<b>Dun-Win Company and Gould's "Dell" Products</b>			
<b>Flavorized Rat Kakes with Warfarin</b>			
Warfarin .....	0.025	0.030	Passed
<b>Hess and Clark</b>			
<b>Division of Richardson-Merrell, Inc.</b>			
<b>New! Improved! Warfarat</b>			
Warfarin .....	0.025	0.032	Passed
<b>Dr. LeGear, Inc.</b>			
<b>Dr. LeGear Warfarin Mouse Killer</b>			
Warfarin .....	0.050	0.058	Passed
do .....	0.050	0.052	Passed
<b>Linen White Products Company, Inc.</b>			
<b>Pestex contains Warfarin</b>			
Warfarin .....	0.025	0.032	Passed
<b>The Master Products Co.</b>			
<b>Rat Buster</b>			
Warfarin .....	0.025	0.030	Passed
do .....	0.025	0.028	Passed
<b>Pearson and Co.</b>			
<b>Red-I-Cat Water Soluble Warfarin</b>			
Warfarin (sodium salt) .....	0.540	0.620	Passed
<b>Seacoast Laboratories, Inc.</b>			
<b>Twin Light Rat-Bait</b>			
Warfarin .....	0.025	0.027	Passed
<b>ZINEB</b>			
<b>Niagara Chemical Div.</b>			
<b>Food, Machinery and Chemical Corp.</b>			
<b>Niagara Zineb 6.5 Dust</b>			
Zineb .....	6.50	6.44	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>W. R. Peele Company, Inc.</b>			
Pelco Dithane Dust			
Zineb .....	6.50	6.60	Passed
<b>MISCELLANEOUS INORGANIC</b>			
<b>American Cyanamid Co.</b>			
Cyanogas Ant Killer			
Calcium cyanide .....	42.00	45.73	Passed
<b>Mahaffey Co.</b>			
New Improved Mahaffey Roach Powder			
Borax .....	60.00	69.60	Passed
<b>MISCELLANEOUS ORGANIC</b>			
<b>Boyle-Midway, Inc.</b>			
Black Flag Powder			
Lethane A-70 .....	7.00	5.84	Deficient
<b>California Chemical Company-Ortho Div.</b>			
Ortho Thiodan 3 Dust			
Thiodan .....	3.00	3.34	Passed
<b>Chemagro Corp.</b>			
Guthion Liquid Concentrate Crop Insecticide			
Guthion .....	22.20	23.56	Passed
<b>The Dill Co.</b>			
Dill's All-Over Flea Powder			
Lethane 60 .....	2.00	2.33	Passed
<b>Geigy Agricultural Chemicals Division Geigy Chemical Corp.</b>			
Geigy Diazinon 25E			
Diazinon .....	25.00	25.10	Passed
<b>Hess and Clark Division of Richardson-Merrell, Inc.</b>			
Dip and Disinfectant			
Coal tar phenols .....	14.00	15.58	Passed
Neutral oil .....	56.00	57.70	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
<b>Miller Chemical and Fertilizer Corp.</b>			
Mico-Fume Tobacco Plant Bed Fumigant			
Mylone .....	25.50	27.04	Passed
<b>Ralston Purina Co.</b>			
Purina Insect Oil Concentrate			
Pentachlorophenol .....	30.70		Passed
Chloro o-phenyl phenol .....	5.00		
Other chlorophenols .....	4.40		
Total chlorine .....	25.35	25.00	
Purina Maggot Killer			
Kepone .....	20.00	20.69	Passed
Purina Baytex Spray Concentrate Insecticide			
Baytex .....	46.10	52.75	Passed
<b>Stauffer Chemical Co.</b>			
Stauffer VAPAM			
Vapam .....	32.70	32.22	Passed
Stauffer Trithion 2 Dust			
Trithion .....	2.00	3.00	Excessive Active Ingredient
<b>United Cooperatives, Inc.</b>			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unico 3* Estate Milcide			
Capryl .....	6.00	8.57	Passed
<b>Virginia-Carolina Chemical Corp.</b>			
V-C Bacats			
N-alkyl(98% C <sub>12</sub> , 2% C <sub>14</sub> )dimethyl (1-methyl naphthyl) ammonium chlorides monohydrate .....	37.50	34.62	Deficient

Manufacturer and Brand		Quoted Price Per Cent	
Miller Chemical and Fertilizer Corp.			
Miscellaneous Tobacco Plant Bed Fungicide		22.50	22.04
Mylone			
Kaiser Petro Co.			
Purina Insect Oil Concentrate			
Pentachlorophenol		30.70	
Chloro-phenyl phenol		5.00	
Other chlorophenols		4.40	
Total chlorines		22.35	22.00
Purina Meggot Killer			
Kapone		20.00	20.00
Purina Baytex Spray Concentrate Insecticide			
Baytex		46.10	22.75
Stout Chemical Co.			
Stout VAPAM		32.70	32.32
Vapor			
Stout Tintion 2 Dust			
Tintion		2.00	2.00
Excipient			
Active ingredient			
United Cooperative, Inc.			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unica 3* Estate Mixture			
Capryl		6.00	8.27
Virginia-Caroline Chemical Corp.			
V-C Bocates			
N-alkyl(28% C <sub>12</sub> 1,1-dimethyl)			
(1-methyl naphthyl) ammonium chloride		37.20	34.63
monofluoride			
United Cooperative, Inc.			
(Registered by Farmers Cooperative Exchange, Inc.)			
Unica 3* Estate Mixture			
Capryl		6.00	8.27



